Final
Quarter 5 Memorandum
Outdoor Ambient Air Study

Operable Unit Number 7 of the
Libby Asbestos Superfund Site

Prepared for:
Montana Department of Environmental Quality
Helena Montana

Prepared by:
Tetra Tech
Helena, Montana

February 2011

FINAL
QUARTER 5 MEMORANDUM
OUTDOOR AMBIENT AIR STUDY

Operable Unit Number 7
of the Libby Asbestos Superfund Site

February 22, 2011

Prepared for:

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY
Remediation Division
P.O. Box 200901
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Task Order Number 76

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LIST OF ACRONYMS AND ABBREVIATIONS

COC	Chain-of-custody
DEQ	Montana Department of Environmental Quality
EDD	Electronic data deliverables
ESAT	Environmental Services Assistance Team
FSDS	Field sampling data sheet
ISO	International Organization for Standardization
LA	Libby amphibole
OU7	Operable Unit Number 7
QC	Quality control
SOP	Standard operating procedure
SRC	Syracuse Research Corporation
TEM	Transmission electron microscopy
TFO	Troy Field Office
Tetra Tech	Tetra Tech EM Inc.

1.0 INTRODUCTION

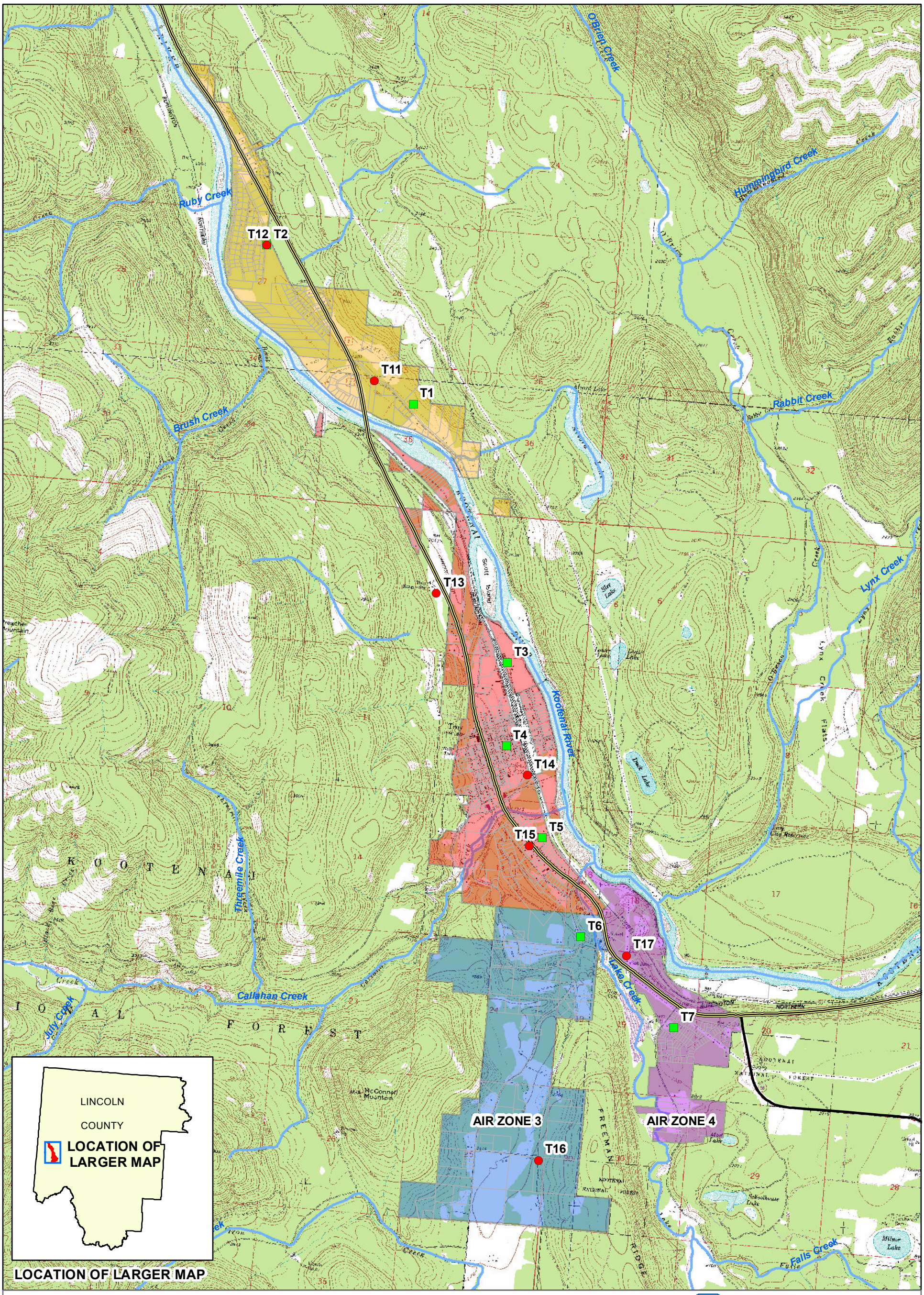
As part of the remedial investigation in Operable Unit Number 7 (OU7), which consists of the residential and commercial areas in and around Troy, Montana of the Libby Asbestos Superfund Site, Tetra Tech EM Inc. (Tetra Tech) continued to conduct outdoor ambient air monitoring for the Montana Department of Environmental Quality (DEQ) to evaluate the presence of Libby Amphibole (LA) asbestos in outdoor ambient air throughout OU7.

The outdoor ambient air monitoring program implemented by Tetra Tech is based on the Remedial Investigation Work Plan, Outdoor Ambient Air Study (Tetra Tech 2009a) and the associated health and safety plan (Tetra Tech 2009b) and includes monitoring of ambient air in four distinct "air zones" across OU7. After taking into account variable wind patterns, Tetra Tech established seven initial monitoring station locations in the four air zones during year 1 to evaluate human health exposure scenarios throughout OU7. Year 1 began on October 30, 2009 and ended on October 27, 2010. Monitoring events were reported by quarter (1 through 4) with 9 sampling periods per quarter. As the ambient air monitoring continued into year 2, six of the seven station locations from year 1were moved to different locations to further support data collection efforts for the OU7 human health risk assessment.

This Quarter 5 Memorandum summarizes activities of the outdoor ambient air monitoring program related to placement of monitoring stations, maintenance performed, monitoring activities, issues encountered, and resolutions from November 10, 2010 through February 2, 2011. This report also provides a summary of validated ambient air data available at the time this document was prepared (sampling periods 24 through 36 [collected during quarter 3 and quarter 4 of year 1]). Sampling data from periods 24 through 36 were validated during quarter 5 using methods described in Section 3.1 and the results are provided in Section 3.2.

2.0 QUARTER 5 AMBIENT AIR MONITORING PLAN IMPLEMENTATION

The Quarter 5 OU7 monitoring was initiated on November 10, 2010 and was the first quarter of year 2 monitoring. Initial field activities such as selection of site monitoring stations and assembly and installation of monitoring equipment are described in the Quarter 1 Memorandum (Tetra Tech 2010). At the start of quarter 5 (beginning of year 2), six of the seven monitoring stations were moved from their year 1 locations to new locations in order to collect further data in support of the OU7 human health risk assessment. Figure 2-1 shows both the year 1 and year 2 monitoring station locations and Table 2-1 provides the general and detailed locations and rationale for the seven year 2 station locations.



LEGEND

- OU 7 AMBIENT AIR SAMPLE STATION - YEAR1
- OU 7 AMBIENT AIR SAMPLE STATION - YEAR2

AMBIENT AIR ZONES

- ZONE 1
- ZONE 2
- ZONE 3
- ZONE 4

0 1 Miles

N

TETRA TECH EM, INC.

LIBBY ASBESTOS SUPERFUND SITE
OPERABLE UNIT 7

FIGURE 2-1
YEARS 1 AND 2
AMBIENT AIR MONITORING STATION LOCATIONS

GIS map by Ed Madej TTEMI-HE
FIG2-1_OU7_AMBIENT_AIR_YEAR1&2_021410.mxd

TABLE 2-1

YEAR 2 OUTDOOR AMBIENT AIR SAMPLING LOCATIONS

Station Number	Location*	Purpose
T11	Community exposure site and middle portion of OU7, located at the small community area NE of the Kootenai River	This site is used to evaluate LA concentrations at the small community area and the northern boundary of OU7
T12	Upwind and downwind site near the NW border of OU7	This site is used to evaluate LA concentrations at the northernmost boundary of OU7 and confirm if any LA is entering or leaving OU7
T13	City of Troy northern site	This site is used to evaluate LA concentrations north of the Troy community
T14	City of Troy population exposure site	This site is used to evaluate LA concentrations in the Troy community (specifically in the population center).
T15	City of Troy southern site	This site is used to evaluate LA concentration south of the Troy community
T16	SW upwind and downwind site	This site is used to evaluate LA concentrations at the southwestern boundary of the OU and confirm if any LA is entering or leaving OU7
T17	SE upwind and downwind site	This site is used to evaluate LA concentrations at the southeastern boundary of the OU and confirm if any LA is entering or leaving OU7
TXXQC	Rotating co-located sampling station to each of the seven sampling locations	Co-located sampling station to evaluate analytical variability at each of the seven station locations

Notes:

LA	Libby Amphibole	SE	Southeast
NE	Northeast	SW	Southwest
NW	Northwest	OU	Operable Unit
XX	Station Location Number	QC	Quality Control

* Predominant winds in the area blow from the southeast and northwest. Stations on the southeast and northwest boundaries of OU7 act as upwind and downwind receptors depending on wind direction. A summary of historic meteorological conditions is in Section 4.4.1.of the Ambient Air RI Work Plan (Tetra Tech 2009a).

During quarter 5 monitoring, none of the seven fixed monitoring stations were required to be moved to allow for property owner activities or overloading issues; however, some mechanical issues were encountered related to pump faults. Section 2.1 provides the quarter 5 sampling schedule and Section 2.2 presents a summary of issues encountered and resolutions to those issues.

2.1 QUARTER 5 SAMPLING SCHEDULE

Quarter 5 ambient air sampling consisted of nine five-day sampling periods generally separated by five off days between each period. Between some sampling periods, the five days were modified by one or two days to adjust for weather or scheduling issues, however, the overall sampling schedule was not impacted. Quarter 5 sampling began with period 37 on November 10, 2010 and ended with period 45 on February 2, 2011. Table 2-2 provides a summary of sampling dates for periods 37 through 45.

TABLE 2-2
OU7 OUTDOOR AMBIENT AIR SAMPLING
QUARTER 5 SAMPLE PERIOD DATES

QUARTER 5 SAMPLE PERIODS	
Sample Period 37	November 10, 2010 through November 14, 2010
Sample Period 38	November 20, 2010 through November 24, 2010
Sample Period 39	December 1, 2010 through December 5, 2010
Sample Period 40	December 10, 2010 through December 14, 2010
Sample Period 41	December 20, 2010 through December 24, 2010
Sample Period 42	December 30, 2010 through January 3, 2011
Sample Period 43	January 9, 2011 through January 13, 2011
Sample Period 44	January 19, 2011 through January 23, 2011
Sample Period 45	January 29, 2011 through February 2, 2011

2.2 MODIFICATIONS, ISSUES, AND RESOLUTIONS

During quarter 5 sampling, two modifications to field data collection were implemented (Troy Field Office [TFO]-00003 and TFO-00004). Several mechanical (pump) issues arose. Section 2.2.1 presents a summary of the two TFO's implemented and Section 2.2.2 provides a discussion of quarter 5 issues and the resolutions to those situations.

2.2.1 Modifications to Ambient Air Sampling Protocol

Prior to initiating quarter 5 sampling, TFO-00003 (Ambient Air Station Locations) and TFO-00004 (Ambient Air QC Station Locations) were implemented. TFO-00003 called for the ambient air monitoring stations to be relocated for the year 2 sampling for more comprehensive coverage of the four "air zones" identified in OU7. This modification was implemented to provide additional data to support the human health risk analysis related to ambient air exposure. Year 2 monitoring station locations are provided on Figure 2-1 and are described in Table 2-1. TFO-00003 is provided in Appendix B.

TFO-00004 provided modifications to sampling protocol involving the rotation of the co-located sampling station (Station TQC) among all of the seven ambient air sampling stations for year 2 sampling. Analytical protocol will not be impacted; however, moving the co-located sampling station will allow for an evaluation of analytical variability at all seven monitoring stations.

Co-located field samples were collected (station TQC) from rotating station locations for each sample period throughout quarter 5. Station TQC was placed next to the monitoring stations. Station TQC was moved after each sampling period (beginning with monitoring station T11) and was cycled through each of the remaining stations (T12, T13, T14, T15, T16, T17). After cycling through station 17, station TQC was returned to station T11 to start the process anew. Cycling of station TQC will continue throughout year 2 so that a minimum of 5 co-located samples will be collected at each of the seven monitoring stations. TFO-00004 is provided in Appendix B.

2.2.2 Pump Failures and Repairs

The primary issue noted during quarter 5 sampling was the five pump failures that were generally attributed to pump faults related to software, not battery failures. When failures were identified, Tetra Tech was often able to minimize data loss by reprogramming the pump and re-sampling with a new cassette and sample number. However, on three occasions, Tetra Tech had to exchange the pump for a working backup pump, using a new cassette and sample number. The Field Sampling Data Sheets (FSDS) were used to record the replacement samples and revised sample periods. Only one sample was deemed unusable during periods 37 to 45 from pump malfunctions (Period 41 station T13) as total air volume collected was insufficient to allow analysis.

To address mechanical or electrical pump malfunctions, Tetra Tech arranged for the pump manufacturer to repair the pumps that malfunctioned during quarter 5. During this reporting period, 3 of the 11 pumps were sent in for repairs that included reprogramming. To date, the manufacturer has returned two of the three pumps to the Troy office where they are now being used for backup pumps in the event of further pump failures.

3.0 OUTDOOR AMBIENT AIR MONITORING DATA

During this reporting period, samples from periods 37 through 45 were submitted to the Environmental Services Assistance Team (ESAT) laboratory for Transmission Electron Microscopy (TEM) analyses. All sample filter cassettes were shipped to the ESAT Laboratory in Golden, Colorado, under chain-of-custody (COC) protocol, where the samples were stored in desiccators to prevent the growth of mold prior to analysis. Complete analytical data from periods 37 through 45 have not been received and/or validated and are not included in this memorandum.

During quarter 5, sample results for periods 24 to 36 were validated. The following sections provide a description of the data validation procedures, data validation findings, and a summary of LA detections noted during sample periods 24 to 36.

3.1 DATA VALIDATION PROCEDURES AND FINDINGS

During quarter 5, Tetra Tech conducted data review and data entry verification of the outdoor ambient air TEM data from sampling periods 24 through 36 in accordance with standard operating procedure (SOP) EPA-LIBBY-09 (revision 1) (Syracuse Research Corporation [SRC] 2008). A copy of this SOP is contained in Appendix F of the Remedial Investigation Work Plan, Outdoor Ambient Air Study (Tetra Tech 2009a). Tetra Tech followed the data review and verification procedures outlined in this SOP, with minor deviations for OU7. An OU7-specific deviation is that the SOP refers to the Libby 2 Database; however, OU7 data are stored in the LibbyOU7TTCombined database using the same database protocols. Approximately 25 percent of the period 24 through 36 data records underwent review and verification. The records were selected in accordance with the SOP process for selecting TEM records for review and verification.

Tetra Tech's verification and validation process has three steps: (1) the selection of data records for review and verification, (2) a review of the original laboratory bench sheets, and (3) verification of the transfer of results from the bench sheets onto the electronic data deliverables, and verification that the electronic data were uploaded properly to the LibbyOU7TTCombined database. Tetra Tech reviewed field quality control (QC) sample results for adherence to minimum frequency requirements and procedures and QC limits specified in SOP LB-000029b (SRC 2008). The data verification and validation process is described in detail in the subsections below.

3.1.1 Selection of TEM Records for Review

SOP EPA-Libby-09 specifies review and verification of a minimum of 10 percent of the sample records. Tetra Tech reviewed approximately 25 percent of the records for periods 24 through 36. The decision to exceed this minimum and review 25 percent of the records was in part due to the high incidence of significant errors (e.g., incorrect transfer of structure counts from bench sheets to electronic data deliverables [EDD]) noted during analysis of early samples, and in part because the structure of the database was recently changed at the request of EPA and a number of data formatting and structural issues have arisen as a result.

Tetra Tech will consult with DEQ regarding reducing the percentage of samples for validation from 25 to 10 percent during year 2. The reduction is based on an increased confidence in laboratory reporting and is in line with the SOP specifications.

Records were queried from the LibbyOU7TTCombined database using applicable selection criteria from the SOP EPA-Libby-09 (Revision 1) (SRC 2008). The criteria are used to select a representative subset of the sample records for review and verification on the basis of analyst, detected results, and nondetected results. The record selection process is described in detail in the SOP EPA-Libby-09 (Revision 1) (SRC 2008).

3.1.2 Consistency Review of Laboratory Bench Sheets

Tetra Tech inspected the information recorded on the original hand-written laboratory bench sheets in accordance with the consistency review of laboratory bench sheets procedure outlined in Section 5 of SOP EPA-LIBBY-09 (revision 1) (SRC 2008), modified as needed for OU7. The bench sheets were reviewed to identify any data omissions, apparent inconsistencies, or potential errors in structure. The review determined whether the raw structure data were recorded in accordance with International Organization for Standardization (ISO) 10312 counting rules (as modified by all applicable Libby laboratory modifications).

Corrective Action – Tetra Tech summarized all apparent inconsistencies, omissions, and suspected errors, and provided them to ESAT, which forwarded them to the appropriate labs for response. The ESAT laboratory determined which items were authentic errors that required correction. None of the inconsistencies, omissions, or suspected errors identified during the quarter 5 data review and verification affected the outcome of interest to the investigation (i.e., the number of LA structures or the concentration of LA). Tetra Tech anticipates the analytical laboratories may submit revised bench sheets to ESAT. If

this occurs, Tetra Tech will download the revised documents provided by ESAT, review them, and replace the previous ones as appropriate.

3.1.3 Verification of Data Transfer from Bench Sheet to Database

To ensure that data from laboratory bench sheets are transferred, through the EDDs, into the LibbyOU7TTCombined database without error or omission, Tetra Tech compared selected analysis-specific information in the laboratory bench sheets to that in the EDD. Tetra Tech followed the verification of data transfer procedure outlined in Section 6.0 of SOP EPA-LIBBY-09 (revision 1) (SRC 2008), modified as needed for OU7. The bench sheets include the laboratory COC form, sample check-in form, preparation log, and hand-written data record sheets. This process compared analysis-specific information in the EDD to the original laboratory job documentation (e.g., internal laboratory COC; preparation logs; bench sheets, etc.); and included verifying (by recalculation) the reported air sensitivities for amphibole and chrysotile; the area analyzed; and for indirect preparations, the indirect preparation dilution factor. Using the bench sheets, Tetra Tech also recounted the countable LA structures across all grid openings evaluated and compared this number (and the calculated concentrations) to the total number of LA structures in the EDD.

The final step in the process was to verify that the data were loaded into the LibbyOU7TTCombined database without error or omission. This was done for the records reviewed for periods 24 through 36, but not for records from previous periods since the data had not been loaded into the database at the time of the verification.

Corrective Action – Tetra Tech summarized all apparent inconsistencies, omissions, and suspected errors, and provided them to ESAT, which forwarded them to the appropriate laboratories for response. The ESAT laboratory determined which items were authentic errors that require correction. None of the inconsistencies, omissions, or suspected errors identified during the quarter 5 data review and verification affected the outcome of interest to the investigation (i.e., the number of LA structures or the concentration of LA). Tetra Tech anticipates the analytical laboratories may submit revised bench sheets and/or EDDs to ESAT. If this occurs, Tetra Tech will download the revised documents provided by ESAT, review them, and replace the previous ones as appropriate.

3.1.4 Review of Field and Laboratory Quality Control Sample Results

Review of field and laboratory QC sample results, including implementation of corrective actions, will be completed once all year one QC sample data are successfully loaded into the LibbyOU7TTCombined database. It is expected that the entire year 1 field QC data set will be available in the LibbyOU7TTCombined database during quarter 6 and will allow for a complete review and implementation of corrective actions, if necessary.

Tetra Tech will review field QC samples (including co-located samples and field blanks) and the laboratory reviews the laboratory QC samples for adherence to the minimum frequency requirements set forth in the work plan (Tetra Tech 2009a) and in SOP LB-000029b (SRC 2007), and for conformance with the QC limits specified in SOP LB-000029b (SRC 2007).

For the co-located field samples, Tetra Tech will use the same statistical comparison test used for the Libby ambient air study (SRC 2009). Each co-located sample pair will be compared using the Poisson rate test (Nelson 1982), included as Attachment 4 to SOP LB-00029b (SRC 2007), to determine whether the results are statistically different from one other at the 95 percent confidence level. The Poisson rate test is suitable for this analysis because fiber counts on TEM grids are considered independent and random.

Corrective Action – For laboratory QC sample exceptions to QC criteria, the appropriate corrective actions are described in detail in LB-00029b (SRC 2007). For co-located field sample pairs, Tetra Tech will review the Poisson rate test results and investigate the basis for any statistical differences and the need for any appropriate corrective actions. Poisson rate test results that indicate the co-located samples are similar at the 95 percent confidence interval will be considered good. Test results in the 90 to 95 percent confidence interval range will be considered acceptable, and test results that fall below the 90 percent confidence interval will be considered poor for similarity. If test results are below the 90 percent interval, Tetra Tech will investigate the basis for the discrepancy and take corrective action in sampling and/or analysis of the samples. Tetra Tech will generally report the results from the original sample (as opposed to co-located sample or laboratory recount sample results). A possible exception to this rule is an ESAT interlab recount result. If, during validation, an interlab recount result is deemed to be more representative than the original result, Tetra Tech will discuss these findings with DEQ and report whichever result is determined to be most representative.

Tetra Tech has reviewed and will continue to review the results for all field blanks for adherence to the QC limits specified in SOP LB-000029b (SRC 2007). All of the field blank results to date are within QC limits.

3.2 AMBIENT AIR LA DETECTIONS

LA fibers were detected in a single sample from period 24 to 36 samples at one station location. Table C-1 (Appendix C) presents a summary of LA detection results for all sampling periods through year 1. LA detections by station for periods 24-36 are summarized below:

Station T5: Detection of LA fibers during Period 35 (concentration of 3.97 E-05)

The remaining samples collected during periods 24 to 36 had no detectable LA fibers. Complete analytical results and a summary of validation findings for sample periods 24 to 36 are provided in Appendix C.

4.0 REFERENCES

Nelson, WB. 1982. Applied Life Data Analysis. John Wiley and Sons. Hoboken, NJ.

Syracuse Research Corporation (SRC). 2007. Request for Modification to Laboratory Activities (LB-000029B). April.

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Tetra Tech EM Inc. (Tetra Tech). 2009a. Remedial Investigation Work Plan, Outdoor Ambient Air Study, Operable Unit 7 of the Libby Asbestos Superfund Site. October.

Tetra Tech. 2009b. Operable Unit 7 Ambient Air Study Health and Safety Plan. October.

Tetra Tech. 2010. First Quarter Memorandum, Outdoor Ambient Air Study, Operable Unit 7 of the Libby Asbestos Superfund Site. February.

APPENDICES

(Appendices are provided on the attached disk)

APPENDIX A

QUARTER 5 OUTDOOR AMBIENT AIR SAMPLING
FIELD SAMPLING DATA SHEETS (FSDS)
NOVEMBER 10, 2010 THROUGH FEBRUARY 2, 2011

APPENDIX B

OUTDOOR AMBIENT AIR SAMPLING MODIFICATIONS
(TFO-00003 and TFO-00004)

APPENDIX C

YEAR 1 CUMULATIVE AMBIENT AIR MONITORING
VALIDATED ANALYTICAL RESULTS

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

TA-20001

Station Location: **Field Blank** | Sample ID #: —

Field Technician: [illegible] | Filter Lot #: **20526-01**

Pump Type/Model: — | Sample Type: **TEM**

Pump Number: — | Sample Parent ID #: —

Sampling Period 1

PUMP SETUP DAY

Date: 11-9-10

Time: 1003

Timer Beginning Date/Time: 11-10 10/2400

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: —

Time: —

Timer Ending Date/Time: —

Ending Flow Rate (L/min): —

Total Sample Volume (L): —

Total Sample Time (min): —

Atmospheric Pressure (INS) —

Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 11-10-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20002

Station Location: **T-11 (P.Epps)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**
Sampling Peiod: 1

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #:

PUMP SETUP DAY

Date: 11-9-10
Time: 1004

Timer Beginning Date/Time: 11-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-15-10
Time: 1726

Timer Ending Date/Time: 11-15-10/1200
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.73
Temperature inside station unit (°F): 39.9/40BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Scattered rain throughout sampling period.

SIGNATURE: [signature] **DATE:** 11-16-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20002

Station Location: **T-11 (P.Epps)**

Sample ID #:

Field Technician: QQ

Filter Lot #: **20526-01**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36423**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-10-10 (QQ)

Time: 14:53 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1786

Cumulative Sample Time (min): 893

Atmospheric pressure (mm Hg): 27.74

Temperature inside station unit (°F): 40.9 pump / 37 BOX

Battery voltage reading (volts): 12.70

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

QQ

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

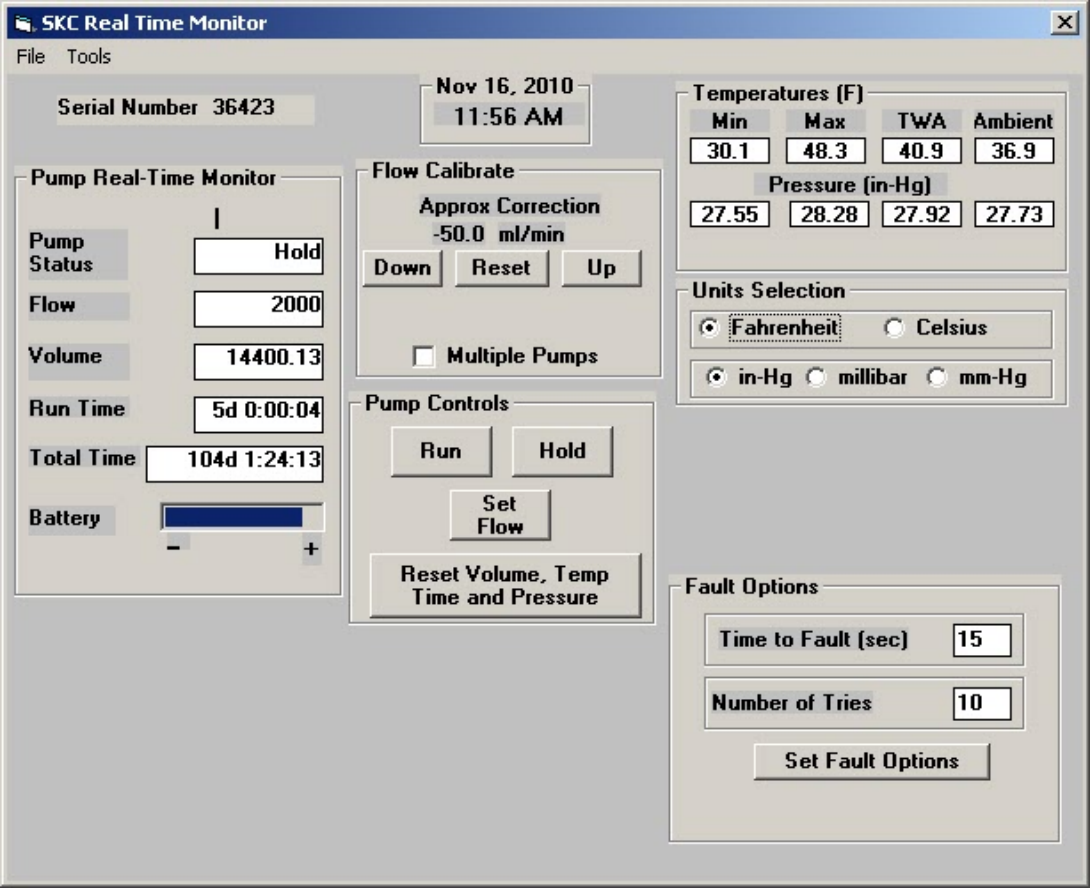
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36423
Date Printed: Tuesday, November 16, 2010 11:56 AM
Min Temp 30.1F
Max Temp 48.3F
TWA Temp 40.9F
Min Pressure 27.5 In-Hg
Max Pressure 28.3 In-Hg
TWA Pressure 27.9 In-Hg
Flow Correction Approximately -50.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Nov 9 2010 10:31 AM			6:05
Sleep		Tue Nov 9 2010 10:37 AM			13:22:09
Prog (Run)	2000	Wed Nov 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Nov 15 2010 12:00 AM			4:59
Sleep		Mon Nov 15 2010 12:05 AM			17:23:12
Hold		Mon Nov 15 2010 5:28 PM			5:05
Sleep		Mon Nov 15 2010 5:33 PM			14:42:25
Hold		Tue Nov 16 2010 8:15 AM			5:06
Sleep		Tue Nov 16 2010 8:20 AM			3:32:10
Hold		Tue Nov 16 2010 11:52 AM			3:01+


SKC Real Time Monitor
File
Tools
Serial Number 36423
Nov 16, 2010
11:56 AM
Temperatures (F)
Min
Max
TWA
Ambient
30.1
48.3
40.9
36.9
Pressure (in-Hg)
27.55
28.28
27.92
27.73
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
104d 1:24:13
Battery
Flow Calibrate
Approx Correction
-50.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20003

Station Location: **T-1QC (P.Epps)**
Field Technician: JJ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36444**
Sampling Period: 1

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID # **TA-20002**

PUMP SETUP DAY

Date: 11-9-10
Time: 1005

Timer Beginning Date/Time: 11-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-15-10
Time: 1728

Timer Ending Date/Time: 11-15-10/1200
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.60
Temperature inside station unit (°F): 36.9/40 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Scattered rain throughout sampling period.

SIGNATURE: JJ **DATE:** 11-16-10

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-20003

Station Location: **T-1QC (P.Epps)**
Sample ID #
Field Technician: QQ
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36444**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-10-10 (QQ)
Time: 1455 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1789
Cumulative Sample Time (min): 894
Atmospheric Pressure (INS) 27.51
Temperature inside station unit (°F): 55.3 Pump / 37 Box
Battery voltage reading (volts): 12.56

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ______ ( )
Time: ______ ( )

PUMP FAULT (Yes / No): ______
Flow Rate (L/min): ______
Cumulative Sample Volume (L): ______
Cumulative Sample Time (min): ______
Atmospheric Pressure (INS) ______
Temperature inside station unit (°F): ______
Battery voltage reading (volts): ______

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ______ ( )
Time: ______ ( )

PUMP FAULT (Yes / No): ______
Flow Rate (L/min): ______
Cumulative Sample Volume (L): ______
Cumulative Sample Time (min): ______
Atmospheric Pressure (INS) ______
Temperature inside station unit (°F): ______
Battery voltage reading (volts): ______

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ______ ( )
Time: ______ ( )

PUMP FAULT (Yes / No): ______
Flow Rate (L/min): ______
Cumulative Sample Volume (L): ______
Cumulative Sample Time (min): ______
Atmospheric Pressure (INS) ______
Temperature inside station unit (°F): ______
Battery voltage reading (volts): ______

DAILY CHECK (For each station visit)

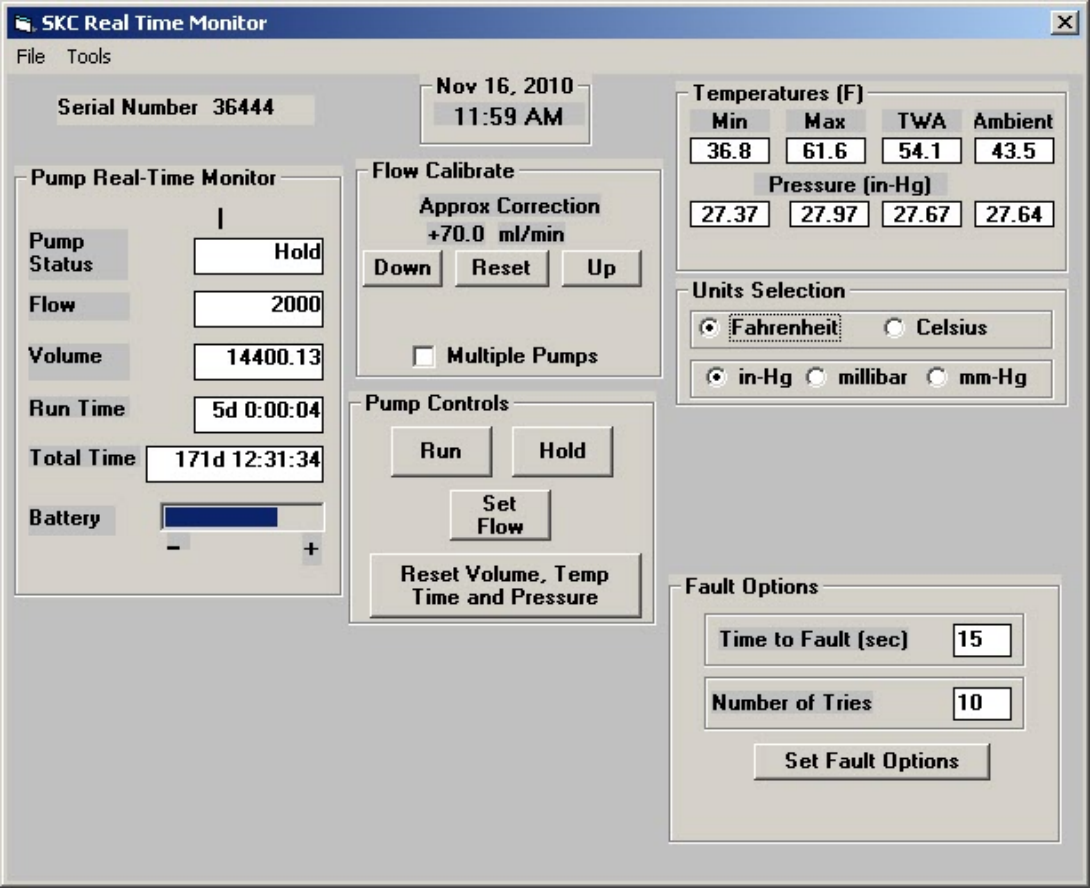
(Field Tech Initials)

Date: ______ ( )
Time: ______ ( )

PUMP FAULT (Yes / No): ______
Flow Rate (L/min): ______
Cumulative Sample Volume (L): ______
Cumulative Sample Time (min): ______
Atmospheric Pressure (INS) ______
Temperature inside station unit (°F): ______
Battery voltage reading (volts): ______

SKC Pump History
SN 36444
Date Printed: Tuesday, November 16, 2010 11:59 AM
Min Temp 36.8F
Max Temp 61.6F
TWA Temp 54.1F
Min Pressure 27.4 In-Hg
Max Pressure 28.0 In-Hg
TWA Pressure 27.7 In-Hg
Flow Correction Approximately +70.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Hold		Tue Nov 9 2010 10:38 AM			0:24
Prog (Hold)		Tue Nov 9 2010 10:39 AM			5:43
Sleep		Tue Nov 9 2010 10:44 AM			13:15:03
Prog (Run)	2000	Wed Nov 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Nov 15 2010 12:00 AM			4:59
Sleep		Mon Nov 15 2010 12:05 AM			17:22:24
Hold		Mon Nov 15 2010 5:27 PM			5:17
Sleep		Mon Nov 15 2010 5:32 PM			18:22:25
Hold		Tue Nov 16 2010 11:55 AM			3:53+


SKC Real Time Monitor
File
Tools
Serial Number 36444
Nov 16, 2010
11:59 AM
Temperatures (F)
Min
Max
TWA
Ambient
36.8
61.6
54.1
43.5
Pressure (in-Hg)
27.37
27.97
27.67
27.64
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
171d 12:31:34
Battery
Flow Calibrate
Approx Correction
+70.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20004

Station Location: **T-12 (Fire Station)**
Field Technician: [redacted]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**
Sampling Period: 1

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-9-10
Time: 1006

Timer Beginning Date/Time: 11-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-15-10
Time: 1734

Timer Ending Date/Time: 11-15-10/1200
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OF LO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.99
Temperature inside station unit (°F): 41.8 Pump/40130X

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Scattered rain throughout Sampling Period

SIGNATURE: [redacted] **DATE:** 11-16-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-20004

Station Location: **T-12 (Fire Station)**

Sample ID #

Field Technician: QQ

Filter Lot #: **20526-01**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36424**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-10-10 (QQ)

Time: 1447 ( )

PUMP FAULT (Yes / No): No

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1774

Cumulative Sample Time (min): 886

Atmospheric Pressure (INS) 2807

Temperature inside station unit (°F): 61.6 pump/50 Box

Battery voltage reading (volts): 12.60

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

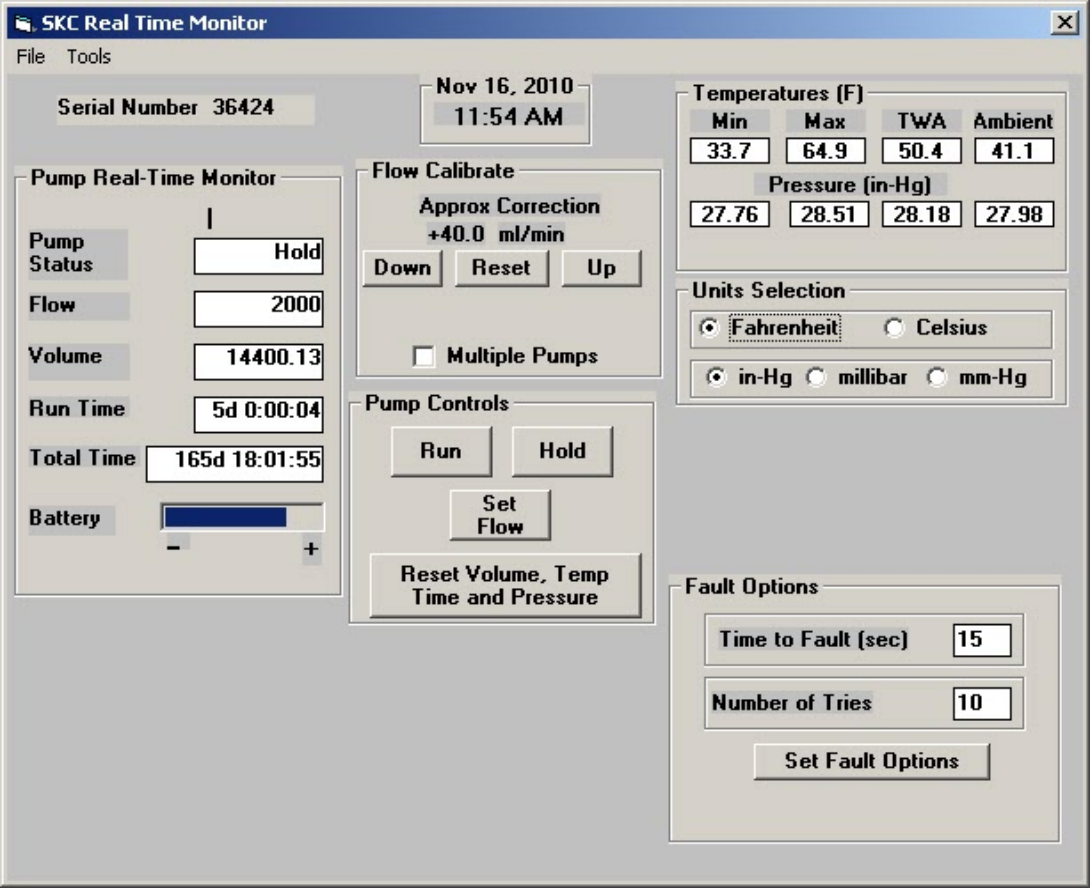
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36424
Date Printed: Tuesday, November 16, 2010 11:54 AM
Min Temp 33.7F
Max Temp 64.9F
TWA Temp 50.4F
Min Pressure 27.8 In-Hg
Max Pressure 28.5 In-Hg
TWA Pressure 28.2 In-Hg
Flow Correction Approximately +40.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Nov 9 2010 10:34 AM			5:55
Sleep		Tue Nov 9 2010 10:40 AM			13:19:58
Prog (Run)	2000	Wed Nov 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Nov 15 2010 12:00 AM			4:59
Sleep		Mon Nov 15 2010 12:05 AM			17:28:41
Hold		Mon Nov 15 2010 5:33 PM			5:05
Sleep		Mon Nov 15 2010 5:38 PM			18:11:46
Hold		Tue Nov 16 2010 11:50 AM			3:27+


SKC Real Time Monitor
File
Tools
Serial Number 36424
Nov 16, 2010
11:54 AM
Temperatures (F)
Min
Max
TWA
Ambient
33.7
64.9
50.4
41.1
Pressure (in-Hg)
27.76
28.51
28.18
27.98
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
165d 18:01:55
Battery
Flow Calibrate
Approx Correction
+40.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20005**

Station Location: **T-13 (Forest Service)** Sample ID #:

Field Technician: QQ Filter Lot #: **20526-01**

Pump Type/Model: **SKC AirChek 2000** Sample Type: **TEM**

Pump Number: **36442** Sample Parent ID #: —

Sampling Period: 1

PUMP SETUP DAY

Timer Beginning Date/Time: 11-10-10/2400

Date: 11-9-10 Beginning Flow Rate (L/min): 2

Time: 1007 Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Timer Ending Date/Time: 11-15-10/1200

Date: 11-15-10 Ending Flow Rate (L/min): 2

Time: 1740 Total Sample Volume (L): OFLO

Total Sample Time (min): 7200

Atmospheric Pressure (INS) 27.68

Temperature inside station unit (°F): 40.8 Pump/38 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Scattered rain throughout sampling period.

SIGNATURE: [signature] **DATE:** 11-16-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20005

Station Location: **T-13 (Forest Service)**
Sample ID #:
Field Technician: [illegible]
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36442**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-10-10 ([illegible])
Time: 1504 ( )

PUMP FAULT (Yes / No): No
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1808
Cumulative Sample Time (min): 903
Atmospheric Pressure (INS) 2777
Temperature inside station unit (^oF): 41.5 pump/34 Box
Battery voltage reading (volts): 12.64

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (^oF):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (^oF):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (^oF):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

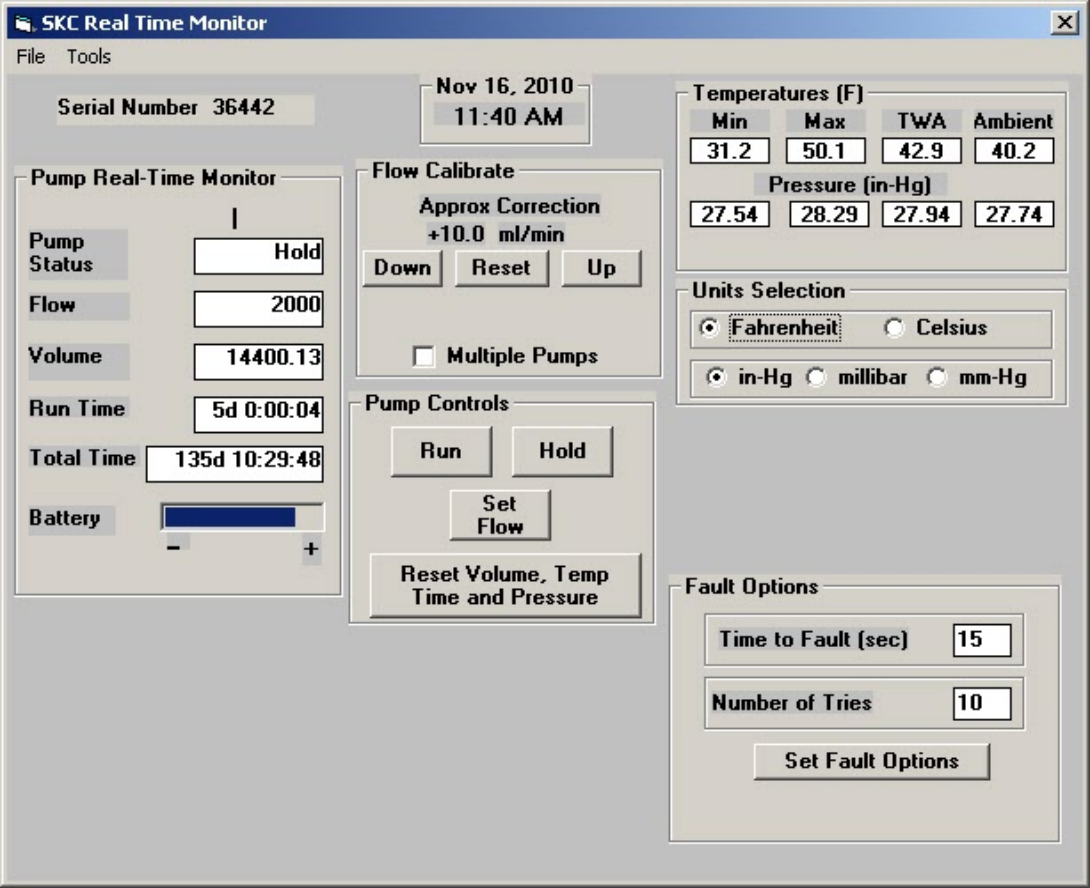
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (^oF):
Battery voltage reading (volts):

SKC Pump History
SN 36442
Date Printed: Tuesday, November 16, 2010 11:38 AM
Min Temp 31.2F
Max Temp 50.1F
TWA Temp 42.9F
Min Pressure 27.5 In-Hg
Max Pressure 28.3 In-Hg
TWA Pressure 27.9 In-Hg
Flow Correction Approximately +10.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Nov 9 2010 10:26 AM			5:36
Sleep		Tue Nov 9 2010 10:31 AM			13:28:24
Prog (Run)	2000	Wed Nov 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Nov 15 2010 12:00 AM			4:59
Sleep		Mon Nov 15 2010 12:05 AM			1d 8:10:15
Hold		Tue Nov 16 2010 8:15 AM			5:06
Sleep		Tue Nov 16 2010 8:20 AM			2:56:07
Hold		Tue Nov 16 2010 11:16 AM			21:31+


SKC Real Time Monitor
File
Tools
Serial Number 36442
Nov 16, 2010
11:40 AM
Temperatures (F)
Min
Max
TWA
Ambient
31.2
50.1
42.9
40.2
Pressure (in-Hg)
27.54
28.29
27.94
27.74
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
135d 10:29:48
Battery
Flow Calibrate
Approx Correction
+10.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20006

Station Location: **T-14 (City Lot R\R)**
Field Technician: ~~QA~~
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36446**
Sampling Period: 1

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

11-9-10
Date: ~~11-8-10~~
Time: 1008

Timer Beginning Date/Time: 11-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-15-10
Time: 8:00

Timer Ending Date/Time: 11-15-10/1200
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OF LO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.43
Temperature inside station unit (°F): 43.1 pump/ 39 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Scattered rain throughout sampling period.

SIGNATURE: [signature] DATE: 11-16-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-20006

Station Location: **T-14 (City Lot R\R)**
Sample ID #
Field Technician: [illegible]
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36446**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-10-10 ([illegible])
Time: 1240 (S.M)

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1519
Cumulative Sample Time (min): 759
Atmospheric Pressure (INS) 27.57
Temperature inside station unit (°F): 45.0 Pump / 38 Box
Battery voltage reading (volts): 12.66

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

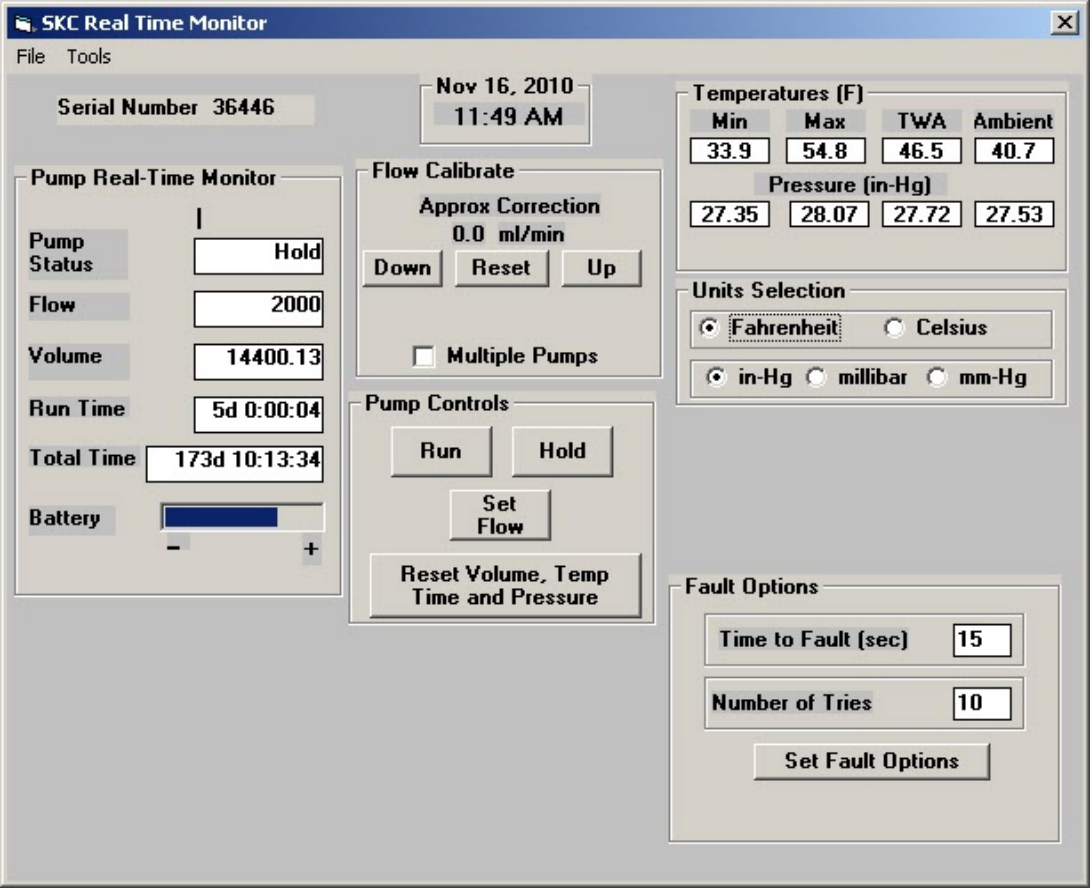
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36446
Date Printed: Tuesday, November 16, 2010 11:49 AM
Min Temp 33.9F
Max Temp 54.8F
TWA Temp 46.5F
Min Pressure 27.4 In-Hg
Max Pressure 28.1 In-Hg
TWA Pressure 27.7 In-Hg
No Flow Correction

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Nov 9 2010 10:36 AM			6:26
Sleep		Tue Nov 9 2010 10:42 AM			13:17:21
Prog (Run)	2000	Wed Nov 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Nov 15 2010 12:00 AM			4:59
Sleep		Mon Nov 15 2010 12:05 AM			1d 8:09:48
Hold		Tue Nov 16 2010 8:14 AM			5:05
Sleep		Tue Nov 16 2010 8:19 AM			3:25:12
Hold		Tue Nov 16 2010 11:45 AM			3:54+


SKC Real Time Monitor
File
Tools
Serial Number 36446
Nov 16, 2010
11:49 AM
Temperatures (F)
Min
Max
TWA
Ambient
33.9
54.8
46.5
40.7
Pressure (in-Hg)
27.35
28.07
27.72
27.53
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
173d 10:13:34
Battery
Flow Calibrate
Approx Correction
0.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20007**

Station Location: **T-15 (Ranch Motel)**
Field Technician: **JJ**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**
Sampling Period: **1**

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-9-10
Time: 1009

Timer Beginning Date/Time: 11-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-16-10
Time: 7:41

Timer Ending Date/Time: 11-15-10/1200
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.77
Temperature inside station unit (°F): 41. of Pump/40 of Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Scattered rain throughout sampling Period.

SIGNATURE: [signature] DATE: 11-16-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20007

Station Location: **T-15 (Ranch Motel)**
Sample ID #:
Field Technician: [signature]
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**

DAILY CHECK (For each station visit)

	(Field Tech Initials)	
Date: 11-10-10	([initials])	PUMP FAULT (Yes / No): N
Time: 1245	(S. m)	Flow Rate (L/min): 2
		Cumulative Sample Volume (L): 1530
		Cumulative Sample Time (min): 764
		Atmospheric Pressure (INS) 27.90
		Temperature inside station unit (°F): 45.9 pump / 38 box
		Battery voltage reading (volts): 12.66

DAILY CHECK (For each station visit)

	(Field Tech Initials)	
Date:	( )	PUMP FAULT (Yes / No):
Time:	( )	Flow Rate (L/min):
		Cumulative Sample Volume (L):
		Cumulative Sample Time (min):
		Atmospheric Pressure (INS)
		Temperature inside station unit (°F):
		Battery voltage reading (volts):

DAILY CHECK (For each station visit)

	(Field Tech Initials)	
Date:	( )	PUMP FAULT (Yes / No):
Time:	( )	Flow Rate (L/min):
		Cumulative Sample Volume (L):
		Cumulative Sample Time (min):
		Atmospheric Pressure (INS)
		Temperature inside station unit (°F):
		Battery voltage reading (volts):

DAILY CHECK (For each station visit)

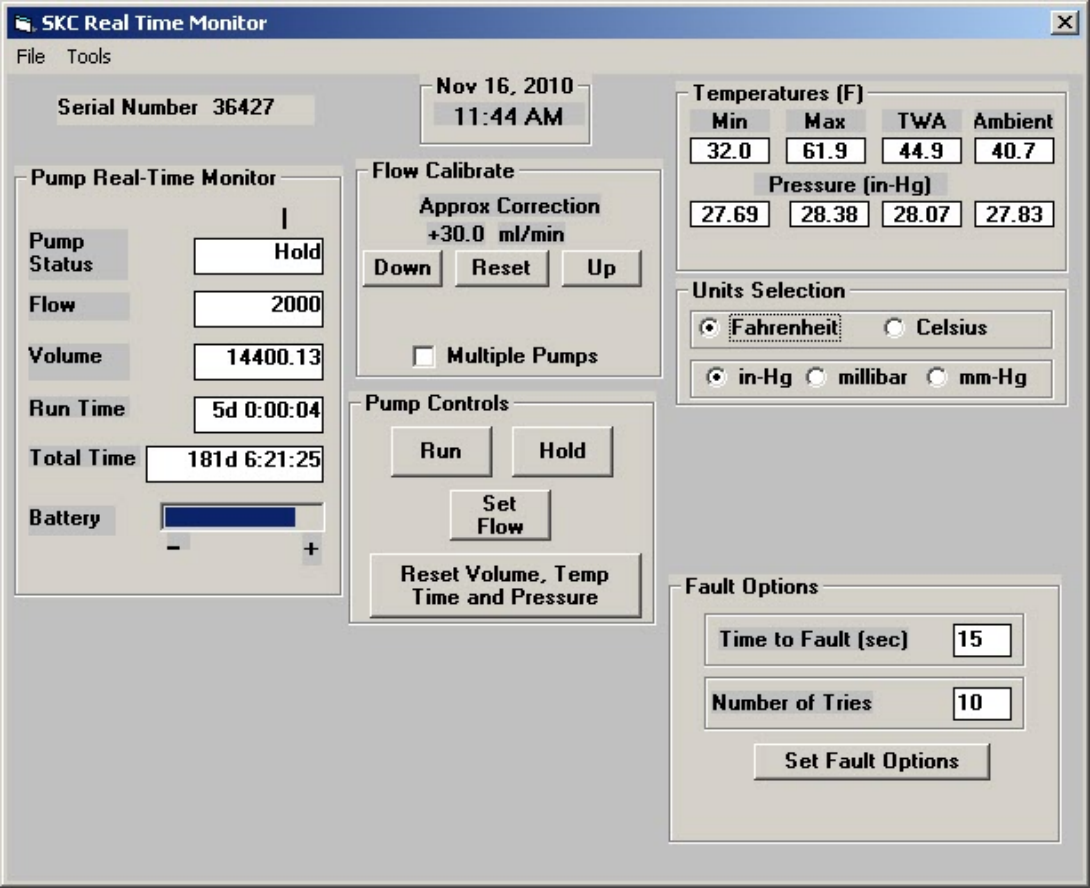
	(Field Tech Initials)	
Date:	( )	PUMP FAULT (Yes / No):
Time:	( )	Flow Rate (L/min):
		Cumulative Sample Volume (L):
		Cumulative Sample Time (min):
		Atmospheric Pressure (INS)
		Temperature inside station unit (°F):
		Battery voltage reading (volts):

DAILY CHECK (For each station visit)

	(Field Tech Initials)	
Date:	( )	PUMP FAULT (Yes / No):
Time:	( )	Flow Rate (L/min):
		Cumulative Sample Volume (L):
		Cumulative Sample Time (min):
		Atmospheric Pressure (INS)
		Temperature inside station unit (°F):
		Battery voltage reading (volts):

SKC Pump History
SN 36427
Date Printed: Tuesday, November 16, 2010 11:44 AM
Min Temp 32.0F
Max Temp 61.9F
TWA Temp 44.9F
Min Pressure 27.7 In-Hg
Max Pressure 28.4 In-Hg
TWA Pressure 28.1 In-Hg
Flow Correction Approximately +30.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Hold		Tue Nov 9 2010 11:39 AM			
Prog (Hold)		Tue Nov 9 2010 10:40 AM			5:48
Sleep		Tue Nov 9 2010 10:46 AM			13:13:24
Prog (Run)	2000	Wed Nov 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Nov 15 2010 12:00 AM			4:59
Sleep		Mon Nov 15 2010 12:05 AM			1d 8:09:24
Hold		Tue Nov 16 2010 8:14 AM			5:06
Sleep		Tue Nov 16 2010 8:19 AM			3:19:11
Hold		Tue Nov 16 2010 11:38 AM			5:18+


SKC Real Time Monitor
File
Tools
Serial Number 36427
Nov 16, 2010
11:44 AM
Temperatures (F)
Min
Max
TWA
Ambient
32.0
61.9
44.9
40.7
Pressure (in-Hg)
27.69
28.38
28.07
27.83
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
181d 6:21:25
Battery
Flow Calibrate
Approx Correction
+30.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20008

Station Location: **T-16 (J. Erickson)**
Sample ID #:
Field Technician: JA
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Sample Type: **TEM**
Pump Number: **36422**
Sample Parent ID #: —
Sampling Period: 1

PUMP SETUP DAY

11-9-10
Date: ~~11-8-10~~
Time: 1010

Timer Beginning Date/Time: 11-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-16-10
Time: 7:54

Timer Ending Date/Time: 11-15-10/1200
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.38
Temperature inside station unit (°F): 43.6 pump/40 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Scattered rain throughout Sampling period.

SIGNATURE: [signature] **DATE:** 11-16-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-20008

Station Location: **T-16 (J. Erickson)**
Field Technician: [signature]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**
Sample ID #:
Filter Lot #: **20526-01**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-10-10 (initials)
Time: 1649 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 2019
Cumulative Sample Time (min): 1009
Atmospheric Pressure (INS) 27.10
Temperature inside station unit (°F): 47.9 PUMP/38 BOX
Battery voltage reading (volts): 12.58

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

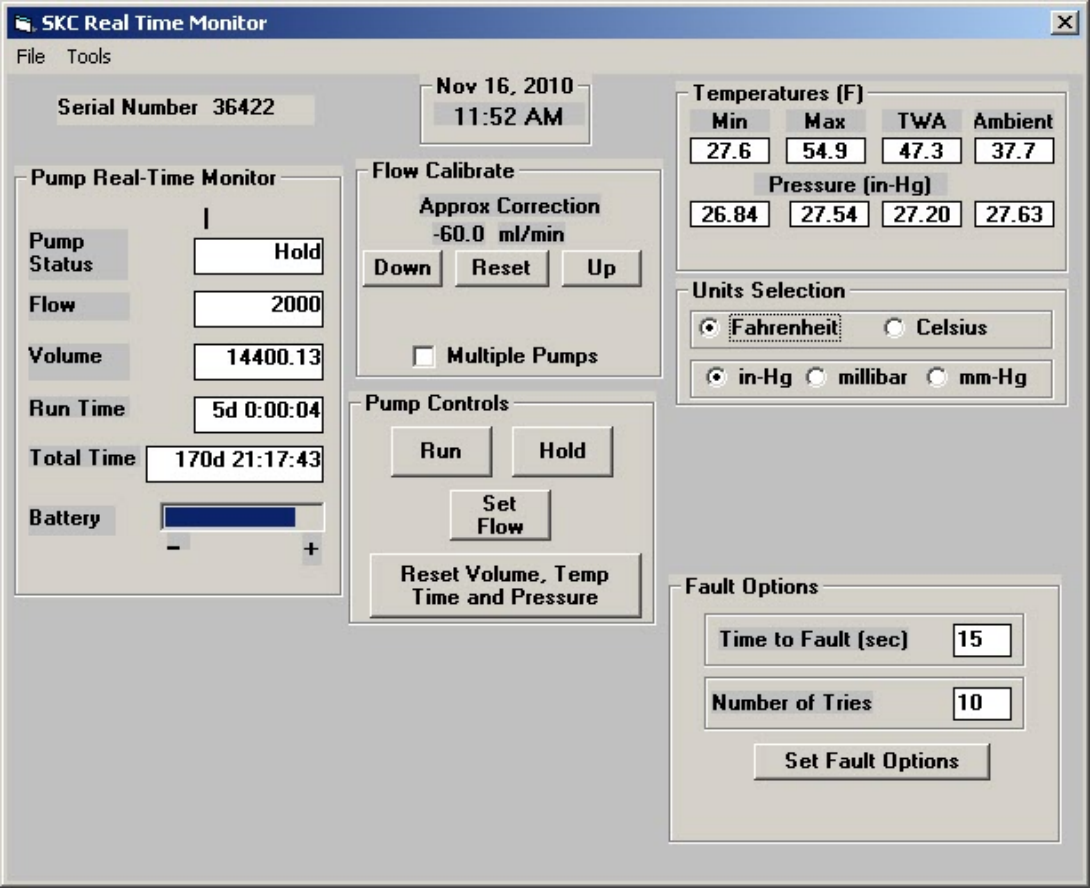
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36422
Date Printed: Tuesday, November 16, 2010 11:52 AM
Min Temp 27.6F
Max Temp 54.9F
TWA Temp 47.3F
Min Pressure 26.8 In-Hg
Max Pressure 27.5 In-Hg
TWA Pressure 27.2 In-Hg
Flow Correction Approximately -60.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Hold		Tue Nov 9 2010 10:41 AM			0:24
Prog (Hold)		Tue Nov 9 2010 10:42 AM			5:22
Sleep		Tue Nov 9 2010 10:47 AM			13:12:17
Prog (Run)	2000	Wed Nov 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Nov 15 2010 12:00 AM			4:59
Sleep		Mon Nov 15 2010 12:05 AM			1d 8:09:00
Hold		Tue Nov 16 2010 8:14 AM			5:07
Sleep		Tue Nov 16 2010 8:19 AM			3:28:41
Hold		Tue Nov 16 2010 11:47 AM			4:11+


SKC Real Time Monitor
File
Tools
Serial Number 36422
Nov 16, 2010
11:52 AM
Temperatures (F)
Min
Max
TWA
Ambient
27.6
54.9
47.3
37.7
Pressure (in-Hg)
26.84
27.54
27.20
27.63
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
170d 21:17:43
Battery
Flow Calibrate
Approx Correction
-60.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20009**

Station Location: **T-17 (County Dump)**
Field Technician: JJ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**
Sampling Period: 1

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

11-9-10
Date: ~~11-8-10~~
Time: 1011

Timer Beginning Date/Time: 11-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-16-10
Time: 7:45

Timer Ending Date/Time: 11-15-10/1200
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmosperic Pressure (INS) 27.57
Temperature inside station unit (°F): 78.5 Pump/42 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Scattered rain throughout sampling Period.

SIGNATURE: [signature] **DATE:** 11-16-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20009

Station Location: **T-17 (County Dump)** Sample ID #:

Field Technician: [signature]

Filter Lot #: **20526-01**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36428**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-10-10 ( )

Time: 1252 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1543

Cumulative Sample Time (min): 771

Atmospheric Pressure (INS) 27.47

Temperature inside station unit (°F): 52.9 Pump/36 Box

Battery voltage reading (volts): 12.60

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

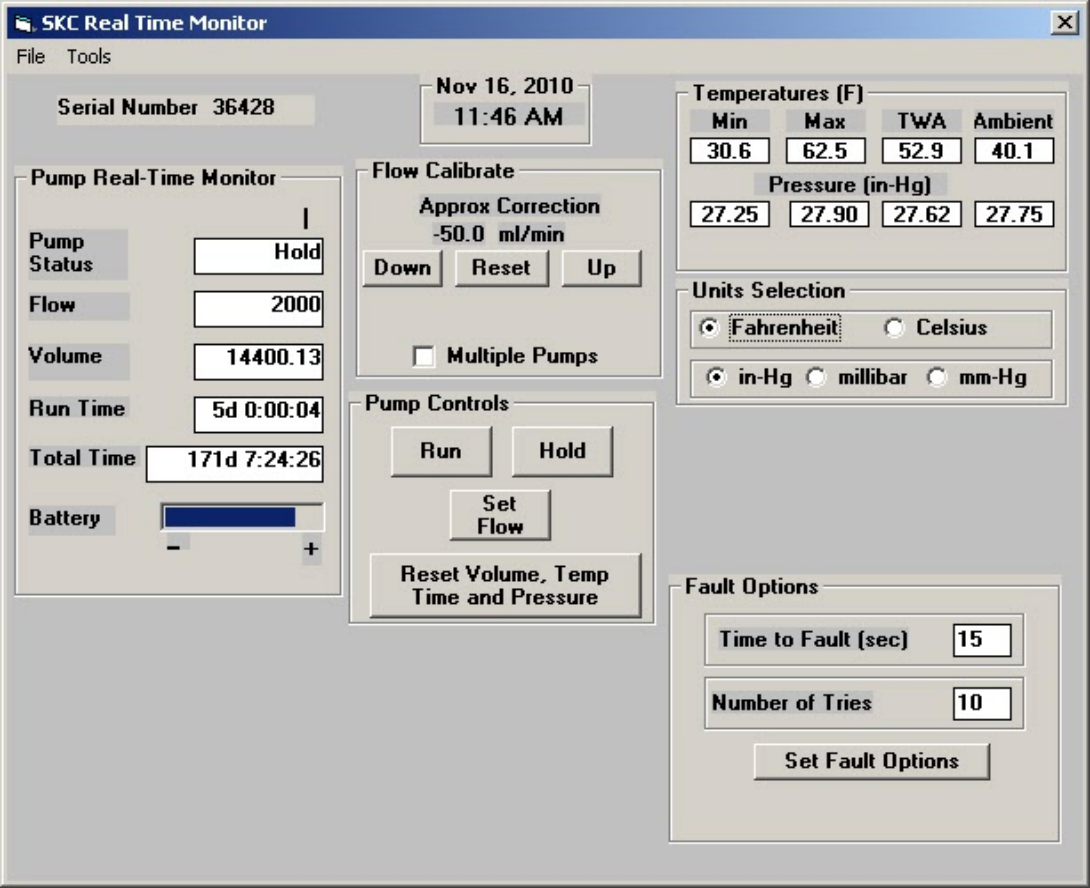
Atmospheric Pressure (INS

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36428
Date Printed: Tuesday, November 16, 2010 11:46 AM
Min Temp 30.6F
Max Temp 62.5F
TWA Temp 52.9F
Min Pressure 27.2 In-Hg
Max Pressure 27.9 In-Hg
TWA Pressure 27.6 In-Hg
Flow Correction Approximately -50.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Nov 9 2010 10:44 AM			5:08
Sleep		Tue Nov 9 2010 10:49 AM			13:10:31
Prog (Run)	2000	Wed Nov 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Nov 15 2010 12:00 AM			4:59
Sleep		Mon Nov 15 2010 12:05 AM			1d 8:07:39
Hold		Tue Nov 16 2010 8:12 AM			5:05
Sleep		Tue Nov 16 2010 8:17 AM			3:23:59
Hold		Tue Nov 16 2010 11:41 AM			4:16+


SKC Real Time Monitor
File
Tools
Serial Number 36428
Nov 16, 2010
11:46 AM
Temperatures (F)
Min
Max
TWA
Ambient
30.6
62.5
52.9
40.1
Pressure (in-Hg)
27.25
27.90
27.62
27.75
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
171d 7:24:26
Battery
Flow Calibrate
Approx Correction
-50.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA **TA-20010**

Station Location: **Field Blank** Sample ID # ____

Field Technician: [illegible] Filter Lot #: **20526-01**

Pump Type/Model: — Sample Type: **TEM**

Pump Number: — Sample Parent ID #: —

Sampling Period 2

PUMP SETUP DAY

Timer Beginning Date/Time: 11-20-10

Date: 11-19-10 Beginning Flow Rate (L/min): 2

Time: 1019 Pump Programmed (Yes / No): Y

Bios Calibration Within 10 mL (Yes / No) —

PUMP RETRIEVAL DAY

Timer Ending Date/Time: —

Date: — Ending Flow Rate (L/min): —

Time: — Total Sample Volume (L): —

Total Sample Time (min): —

Atmospheric Pressure (INS) —

Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 11-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20011

Station Location: **T-11 (P.Epps)**
Field Technician: JJ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**
Sampling Peiod: 2

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-19-10
Time: 1020

Timer Beginning Date/Time: 11-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-27-10
Time: 0957

Timer Ending Date/Time: 11-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.57
Temperature inside station unit (°F): 26,5

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

checked on 11-27-10 Lock frozen. checked on 11-22-10 could hear pump running Lock frozen. snow and Low temps during Sampling event. JJ

Brought torch to unfreeze locks but did not open doors did not want to let what little heat there was out. 11-22-10 JJ

Snow & Low temps during Sampling event. JJ

SIGNATURE: [signature] DATE: 11-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20011

Station Location: **T-11 (P.Epps)** Sample ID #:

Field Technician: gg Filter Lot #: **20526-01**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36423**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-21-10 (gg)

Time: — ( )

Locks frozen
could hear pump running
Through door

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric pressure (mm Hg):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-22-10 (gg)

Time: — ( )

pump still running

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

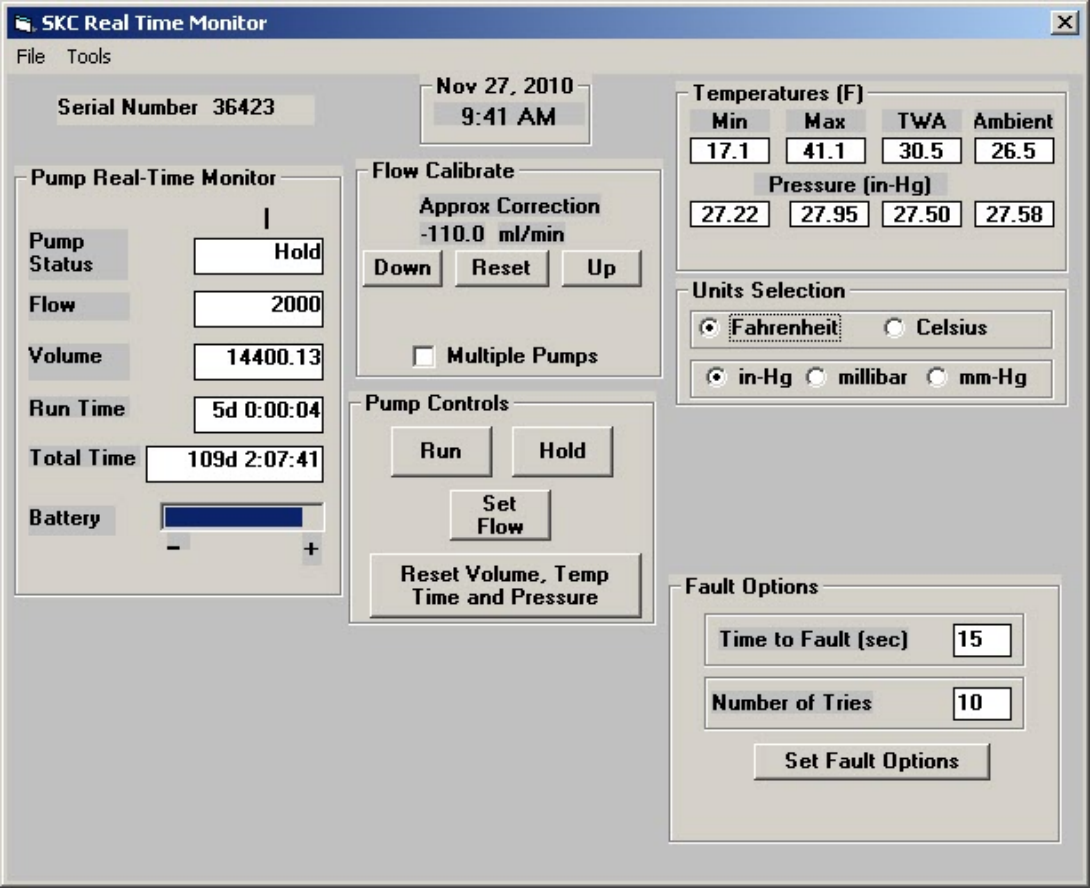
Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36423
Date Printed: Saturday, November 27, 2010 9:41 AM
Min Temp 17.1F
Max Temp 41.1F
TWA Temp 30.5F
Min Pressure 27.2 In-Hg
Max Pressure 28.0 In-Hg
TWA Pressure 27.5 In-Hg
Flow Correction Approximately -110.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Fri Nov 19 2010 11:08 AM			5:40
Sleep		Fri Nov 19 2010 11:13 AM			12:46:02
Prog (Run)	2000	Sat Nov 20 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Nov 25 2010 12:00 AM			4:59
Sleep		Thu Nov 25 2010 12:05 AM			1d 23:54:59
Hold		Sat Nov 27 2010 12:00 AM			4:58
Sleep		Sat Nov 27 2010 12:04 AM			9:33:07
Hold		Sat Nov 27 2010 9:38 AM			2:55+


SKC Real Time Monitor
File
Tools
Serial Number 36423
Nov 27, 2010
9:41 AM
Temperatures (F)
Min
Max
TWA
Ambient
17.1
41.1
30.5
26.5
Pressure (in-Hg)
27.22
27.95
27.50
27.58
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
109d 2:07:41
Battery
Flow Calibrate
Approx Correction
-110.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20012

Station Location: **T-12 (Fire Station)**
Sample ID #:
Field Technician:
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Sample Type: **TEM**
Pump Number: **36424**
Sample Parent ID #: —
Sampling Period: 2

PUMP SETUP DAY

Timer Beginning Date/Time: 11-20-10/2400
Date: 11-19-10
Beginning Flow Rate (L/min): 2
Time: 1022
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Timer Ending Date/Time: 11-25-10/2400
Date: 11-27-10
Ending Flow Rate (L/min): 2
Time: 0956
Total Sample Volume (L): 0FL0
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27,80
Temperature inside station unit (°F): 30,1

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Checked on 11-21-10 Lock frozen. Used torch on 11-22-10 to unfreeze Lock heater battery was dead pump running fine.
Snow & Low temps during sampling event.

SIGNATURE: DATE: 11-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20012

Station Location: **T-12 (Fire Station)**
Sample ID #:
Field Technician: QQ
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-21-10 (QQ)
Time: — ( )

Locks frozen could hear Pump running Through door

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-22-10 (QQ)
Time: 1145 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 7171
Cumulative Sample Time (min): 3584
Atmospheric Pressure (INS) 27.70
Temperature inside station unit (°F): 36.5 Pump/26 Box
Battery voltage reading (volts): 12.63
Heater - 9.70

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

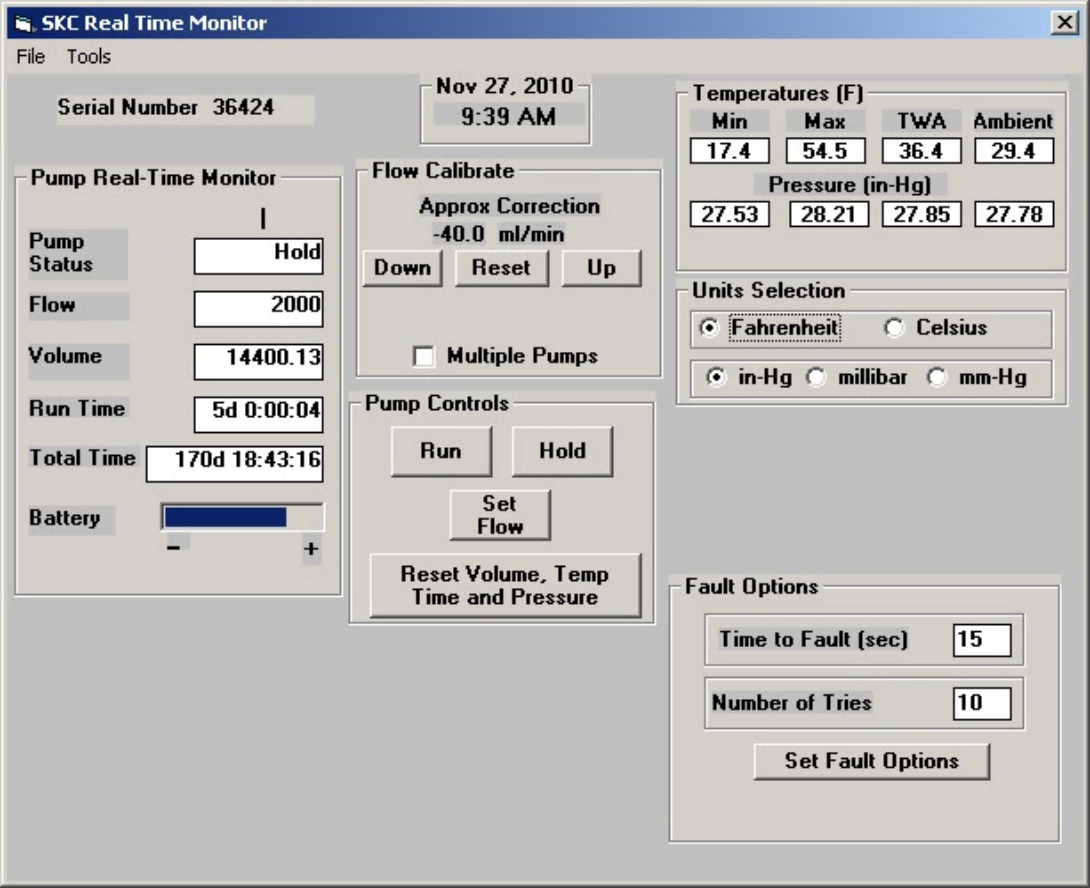
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36424
Date Printed: Saturday, November 27, 2010 9:39 AM
Min Temp 17.4F
Max Temp 54.5F
TWA Temp 36.4F
Min Pressure 27.5 In-Hg
Max Pressure 28.2 In-Hg
TWA Pressure 27.8 In-Hg
Flow Correction Approximately -40.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Fri Nov 19 2010 11:06 AM			6:30
Sleep		Fri Nov 19 2010 11:12 AM			12:47:18
Prog (Run)	2000	Sat Nov 20 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Nov 25 2010 12:00 AM			4:59
Sleep		Thu Nov 25 2010 12:05 AM			1d 23:54:59
Hold		Sat Nov 27 2010 12:00 AM			4:58
Sleep		Sat Nov 27 2010 12:04 AM			9:30:44
Hold		Sat Nov 27 2010 9:35 AM			3:18+


SKC Real Time Monitor
File
Tools
Serial Number 36424
Nov 27, 2010
9:39 AM
Temperatures (F)
Min
Max
TWA
Ambient
17.4
54.5
36.4
29.4
Pressure (in-Hg)
27.53
28.21
27.85
27.78
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
170d 18:43:16
Battery
Flow Calibrate
Approx Correction
-40.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20013

Station Location: **T-12QC (FireStation)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36444**
Sampling Period: 2

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID # **TA-20012**

PUMP SETUP DAY

Date: 11-19-10
Time: 1026

Timer Beginning Date/Time: 11-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-27-10
Time: 0955

Timer Ending Date/Time: 11-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0F40
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.47
Temperature inside station unit (°F): 32.1

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

checked on 11-21-10 Lock frozen. Brought torch on 11-22-10 to unfreeze locks but did not open door did not want to let out what little heat there was

Snow & Low temps during sampling event.

SIGNATURE: [signature] DATE: 11-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-20013

Station Location: T-12QC (FireStation)
Sample ID #:
Field Technician:
Filter Lot #: 20526-01
Pump Type/Model: SKC AirChek 2000
Pump Number: 36444

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-21-10 ( )
Time: — ( )

Lock frozen could hear pump running through door

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-22-10 ( )
Time: — ( )

pumps still running

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

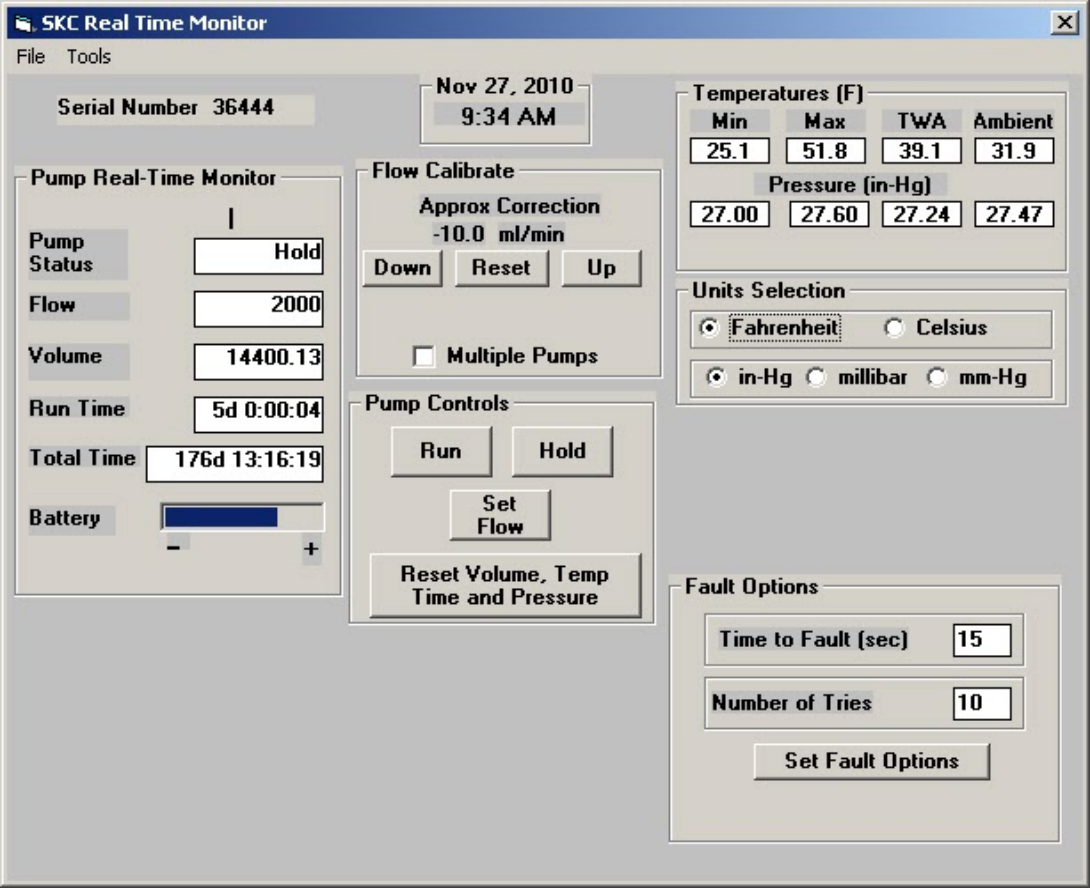
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36444
Date Printed: Saturday, November 27, 2010 9:34 AM
Min Temp 25.1F
Max Temp 51.8F
TWA Temp 39.1F
Min Pressure 27.0 In-Hg
Max Pressure 27.6 In-Hg
TWA Pressure 27.2 In-Hg
Flow Correction Approximately -10.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Fri Nov 19 2010 11:10 AM			5:01
Sleep		Fri Nov 19 2010 11:15 AM			12:44:29
Prog (Run)	2000	Sat Nov 20 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Thu Nov 25 2010 12:00 AM			4:59
Sleep		Thu Nov 25 2010 12:05 AM			1d 23:55:00
Hold		Sat Nov 27 2010 12:00 AM			4:57
Sleep		Sat Nov 27 2010 12:04 AM			9:22:35
Hold		Sat Nov 27 2010 9:27 AM			4:58
Sleep		Sat Nov 27 2010 9:32 AM			0:31
Hold		Sat Nov 27 2010 9:33 AM			0:58+


SKC Real Time Monitor
File
Tools
Serial Number 36444
Nov 27, 2010
9:34 AM
Temperatures (F)
Min
Max
TWA
Ambient
25.1
51.8
39.1
31.9
Pressure (in-Hg)
27.00
27.60
27.24
27.47
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
176d 13:16:19
Battery
Flow Calibrate
Approx Correction
-10.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20014

Station Location: **T-13 (Forest Service)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36442**
Sampling Period: 2

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-19-10
Time: 1027

Timer Beginning Date/Time: 11-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-27-10
Time: 0954

Timer Ending Date/Time: 11-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 F L O
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.52
Temperature inside station unit (°F): 28.3

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

checked on 11-21-10 Lock frozen. Brought torch on 11-22-10 to unfreeze locks did not open door did want to let out what little heat there was

Snow & Low temps during sampling event.

SIGNATURE: [signature] DATE: 11-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20014

Station Location: **T-13 (Forest Service)** Sample ID #:

Field Technician: [initials] Filter Lot #: **20526-01**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36442**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-21-10 ([initials])

Time: — ( )

Lock frozen could hear pump running through door

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-22-10 ([initials])

Time: — ( )

Pumps still running

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

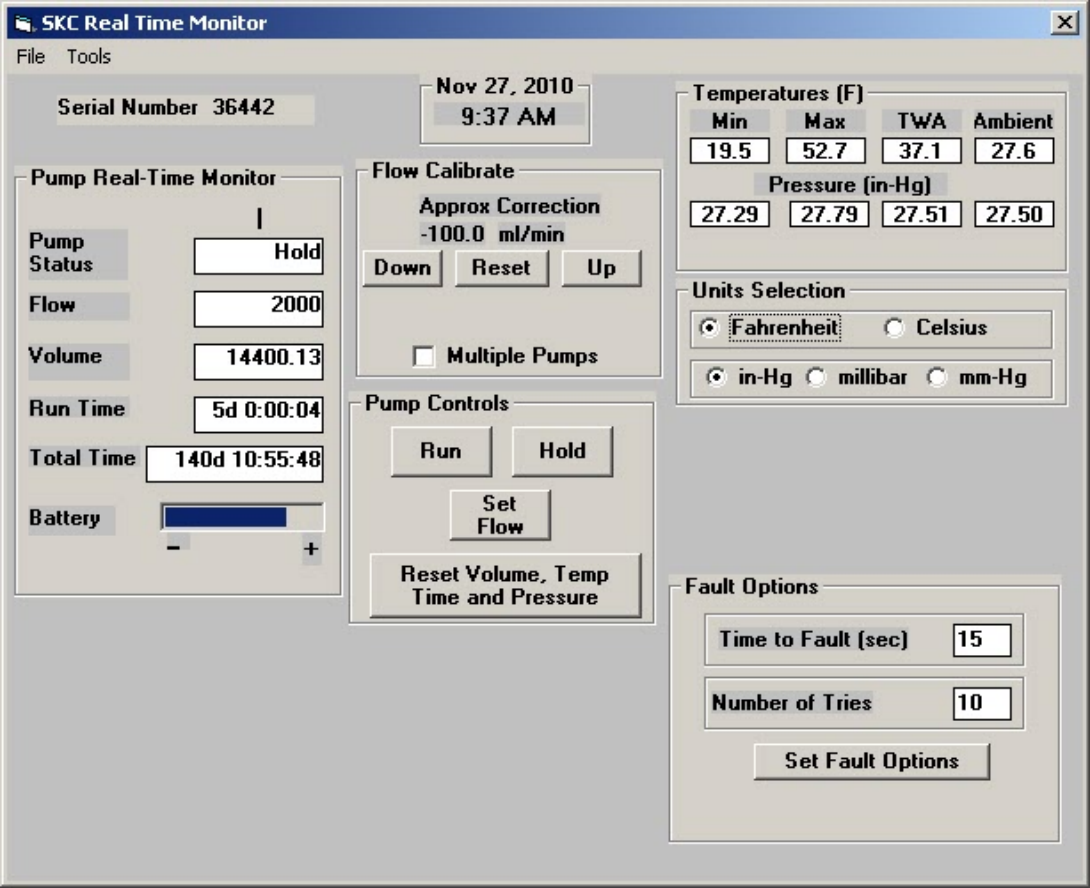
Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36442
Date Printed: Saturday, November 27, 2010 9:37 AM
Min Temp 19.5F
Max Temp 52.7F
TWA Temp 37.1F
Min Pressure 27.3 In-Hg
Max Pressure 27.8 In-Hg
TWA Pressure 27.5 In-Hg
Flow Correction Approximately -100.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Fri Nov 19 2010 10:52 AM			7:20
Sleep		Fri Nov 19 2010 10:59 AM			13:00:23
Prog (Run)	2000	Sat Nov 20 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Thu Nov 25 2010 12:00 AM			4:59
Sleep		Thu Nov 25 2010 12:05 AM			1d 23:54:59
Hold		Sat Nov 27 2010 12:00 AM			4:58
Sleep		Sat Nov 27 2010 12:04 AM			9:27:55
Hold		Sat Nov 27 2010 9:32 AM			4:07+


SKC Real Time Monitor
File
Tools
Serial Number 36442
Nov 27, 2010
9:37 AM
Temperatures (F)
Min
Max
TWA
Ambient
19.5
52.7
37.1
27.6
Pressure (in-Hg)
27.29
27.79
27.51
27.50
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
140d 10:55:48
Battery
Flow Calibrate
Approx Correction
-100.0 ml/min
Down
Reset
Up
Multiple Pumps
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20015

Station Location: **T-14 (City Lot R\R)**
Field Technician: JJ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36446**
Sampling Period: 2

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-19-10
Time: 1028

Timer Beginning Date/Time: 11-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-27-10
Time: 0953

Timer Ending Date/Time: 11-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.39
Temperature inside station unit (°F): 30.3

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

checked on 11-21-10 Lock frozen, Brought torch on 11-22-10 to unfreeze locks did not open door did not want to let out heat. JJ

Snow + low temps during sampling event. JJ

SIGNATURE: [signature] DATE: 11-27-10

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-20015

Station Location: **T-14 (City Lot R\R)**
Sample ID #
Field Technician: [signature]
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36446**

DAILY CHECK (For each station visit)
(Field Tech Initials)
Date: 11-21-10 ([initials])
Time: — ( )
Lock frozen could hear pump running through door

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)
(Field Tech Initials)
Date: 11-22-10 ([initials])
Time: — ( )
Pump still running

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)
(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)
(Field Tech Initials)
Date: ( )
Time: ( )

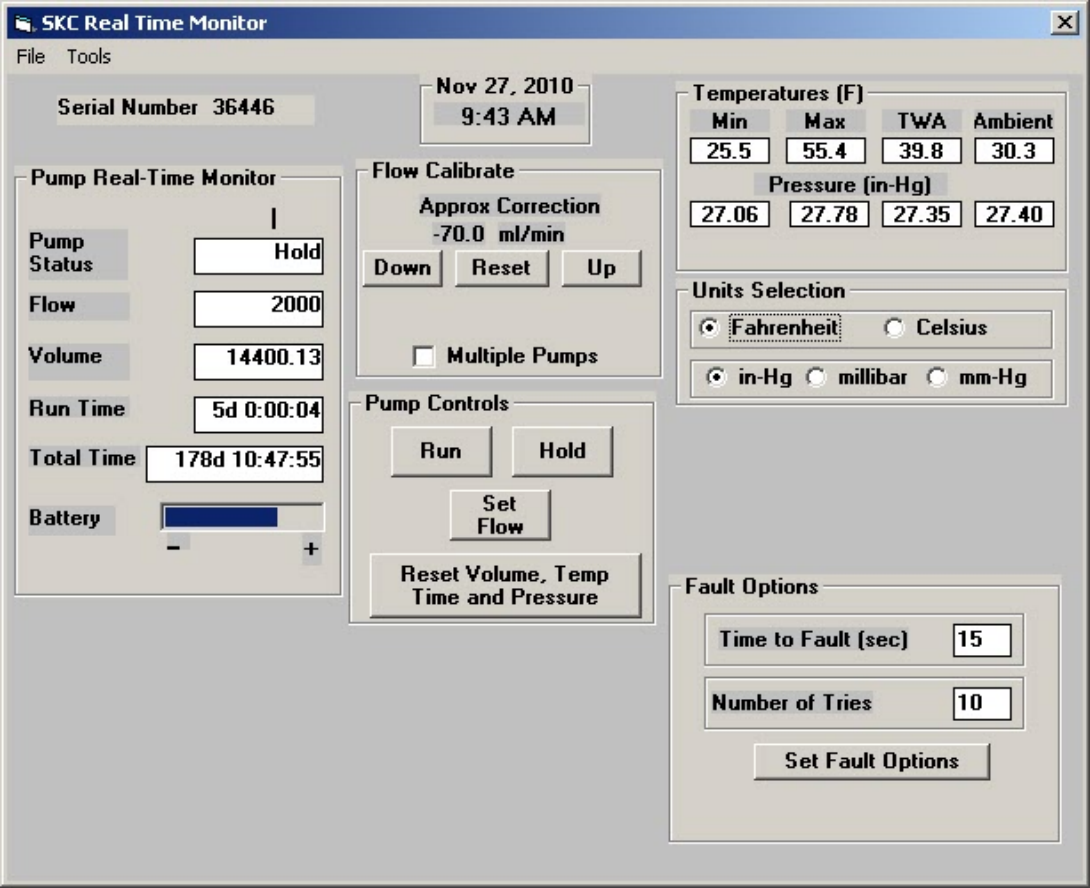
PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)
(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36446
Date Printed: Saturday, November 27, 2010 9:43 AM
Min Temp 25.5F
Max Temp 55.4F
TWA Temp 39.8F
Min Pressure 27.1 In-Hg
Max Pressure 27.8 In-Hg
TWA Pressure 27.3 In-Hg
Flow Correction Approximately -70.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Fri Nov 19 2010 10:59 AM			7:21
Sleep		Fri Nov 19 2010 11:06 AM			12:53:04
Prog (Run)	2000	Sat Nov 20 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Nov 25 2010 12:00 AM			4:59
Sleep		Thu Nov 25 2010 12:05 AM			1d 23:54:59
Hold		Sat Nov 27 2010 12:00 AM			4:58
Sleep		Sat Nov 27 2010 12:04 AM			9:36:58
Hold		Sat Nov 27 2010 9:41 AM			1:04+


SKC Real Time Monitor
File
Tools
Serial Number 36446
Nov 27, 2010
9:43 AM
Temperatures (F)
Min
Max
TWA
Ambient
25.5
55.4
39.8
30.3
Pressure (in-Hg)
27.06
27.78
27.35
27.40
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
178d 10:47:55
Battery
Flow Calibrate
Approx Correction
-70.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20016

Station Location: **T-15 (Ranch Motel)**
Field Technician: JG
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**
Sampling Period: 2

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-19-10
Time: 1029

Timer Beginning Date/Time: 11-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-27-10
Time: 0952

Timer Ending Date/Time: 11-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.69
Temperature inside station unit (°F): 30.3

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Checked on 11-21-10 Lock frozen. Brought torch on 11-22-10 to unfreeze locks but did not open door did not want to let all the heat out. JG

Snow & low temps during sampling event. JG

SIGNATURE: [signature] DATE: 11-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20016

Station Location: T-15 (Ranch Motel)
Sample ID #:
Field Technician: [initials]
Filter Lot #: 20526-01
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427

DAILY CHECK (For each station visit)
(Field Tech Initials)
Date: 11-21-10 ([initials])
Time: — ( )
Lock frozen could hear pump running through door
PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)
(Field Tech Initials)
Date: 11-22-10 ([initials])
Time: — ( )
Pump still running
PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

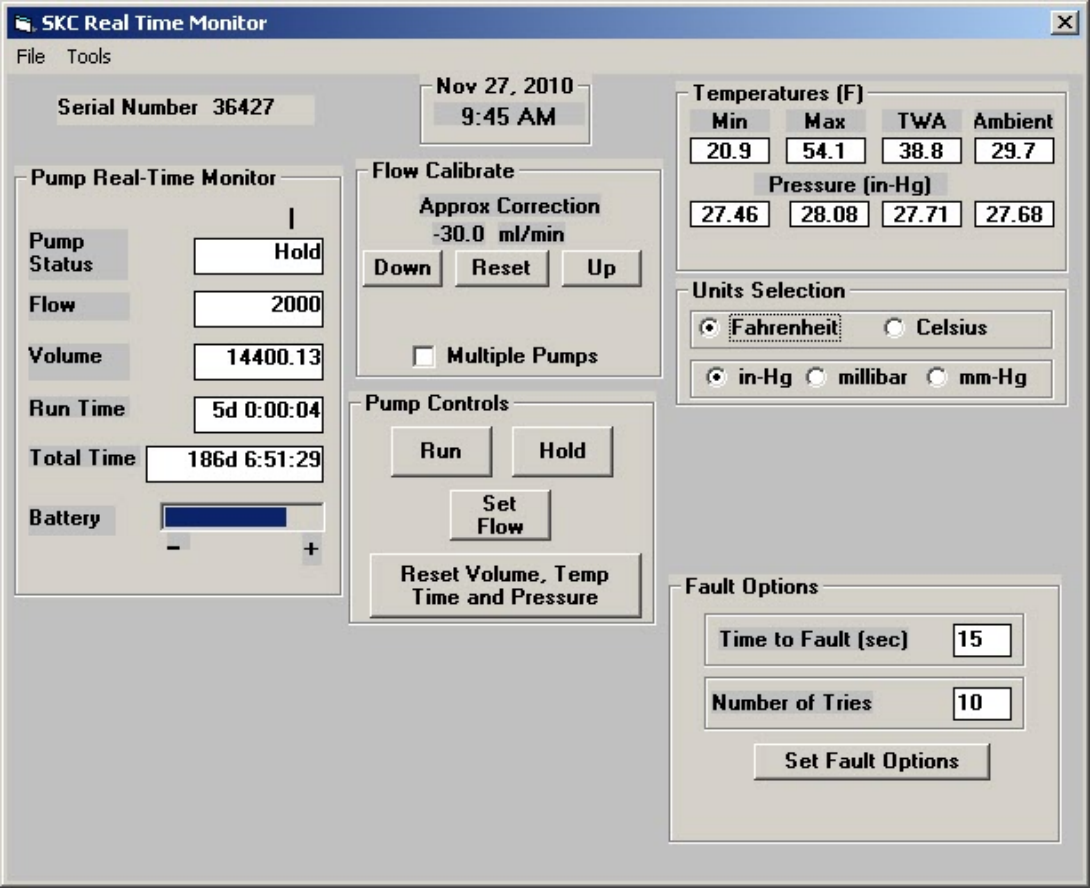
DAILY CHECK (For each station visit)
(Field Tech Initials)
Date: ( )
Time: ( )
PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)
(Field Tech Initials)
Date: ( )
Time: ( )
PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)
(Field Tech Initials)
Date: ( )
Time: ( )
PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36427
Date Printed: Saturday, November 27, 2010 9:45 AM
Min Temp 20.9F
Max Temp 54.1F
TWA Temp 38.8F
Min Pressure 27.5 In-Hg
Max Pressure 28.1 In-Hg
TWA Pressure 27.7 In-Hg
Flow Correction Approximately -30.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Fri Nov 19 2010 10:55 AM			5:58
Sleep		Fri Nov 19 2010 11:01 AM			12:58:47
Prog (Run)	2000	Sat Nov 20 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Nov 25 2010 12:00 AM			4:59
Sleep		Thu Nov 25 2010 12:05 AM			1d 23:55:00
Hold		Sat Nov 27 2010 12:00 AM			4:57
Sleep		Sat Nov 27 2010 12:04 AM			9:37:06
Hold		Sat Nov 27 2010 9:42 AM			2:56+


SKC Real Time Monitor
File
Tools
Serial Number 36427
Nov 27, 2010
9:45 AM
Temperatures (F)
Min
Max
TWA
Ambient
20.9
54.1
38.8
29.7
Pressure (in-Hg)
27.46
28.08
27.71
27.68
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
186d 6:51:29
Battery
Flow Calibrate
Approx Correction
-30.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20017

Station Location: **T-16 (J. Erickson)**
Field Technician: JF
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**
Sampling Period: 2

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-19-10
Time: 1031

Timer Beginning Date/Time: 11-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-27-10
Time: 0951

Timer Ending Date/Time: 11-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.45
Temperature inside station unit (°F): 27.7

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Checked on 11-24-10 Lock frozen. Brought torch on 11-22-10 to unfreeze locks but did not open doors did not want to let heat out. JF

Snow + Low temps during sampling event. JF

SIGNATURE: Jenny Jordan DATE: 11-27-10

TA-20017

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

Station Location: T-16 (J. Erickson)
Sample ID #:
Field Technician: [illegible]
Filter Lot #: 20526-01
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-21-10 ([illegible])
Time: — ( )

Lock frozen could hear pump running through door

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-22-10 ([illegible])
Time: — ( )

Pumps still running

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

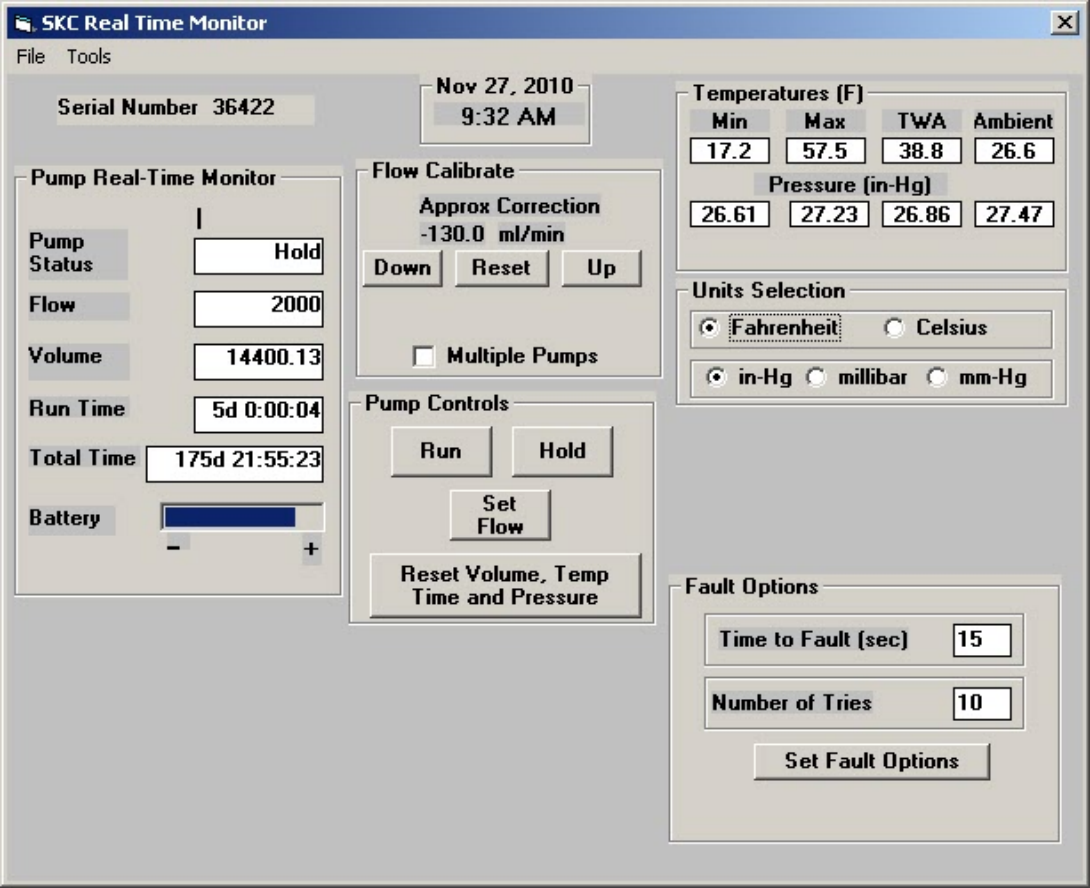
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36422
Date Printed: Saturday, November 27, 2010 9:31 AM
Min Temp 17.2F
Max Temp 57.5F
TWA Temp 38.8F
Min Pressure 26.6 In-Hg
Max Pressure 27.2 In-Hg
TWA Pressure 26.9 In-Hg
Flow Correction Approximately -130.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Fri Nov 19 2010 11:03 AM			7:23
Sleep		Fri Nov 19 2010 11:10 AM			12:49:32
Prog (Run)	2000	Sat Nov 20 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Nov 25 2010 12:00 AM			4:59
Sleep		Thu Nov 25 2010 12:05 AM			1d 23:54:59
Hold		Sat Nov 27 2010 12:00 AM			4:58
Sleep		Sat Nov 27 2010 12:04 AM			9:22:22
Hold		Sat Nov 27 2010 9:27 AM			3:40+


SKC Real Time Monitor
File
Tools
Serial Number 36422
Nov 27, 2010
9:32 AM
Temperatures (F)
Min
Max
TWA
Ambient
17.2
57.5
38.8
26.6
Pressure (in-Hg)
26.61
27.23
26.86
27.47
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
175d 21:55:23
Battery
Flow Calibrate
Approx Correction
-130.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20018

Station Location: **T-17 (County Dump)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**
Sampling Period: 2

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-19-10
Time: 1032

Timer Beginning Date/Time: 11-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 11-27-10
Time: 0950

Timer Ending Date/Time: 11-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmosperic Pressure (INS) 27.60
Temperature inside station unit (°F): 29.6

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

checked pump on 11-21-10 lock frozen could not open station. Could hear pump running through door. Checked on 11-22-10 brought torch to unfreeze locks but did not open door did not want to let heat out.

Show 4 Low temps. during Sampling event.

SIGNATURE: [signature] DATE: 11-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20018

Station Location: **T-17 (County Dump)** Sample ID #:

Field Technician: [illegible]

Pump Type/Model: **SKC AirChek 2000** Filter Lot #: **20526-01**

Pump Number: **36428**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-21-10 ([illegible])

Time: — ( )

Lock frozen could hear pump running through door

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-22-10 ([illegible])

Time: — ( )

Pump still running

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

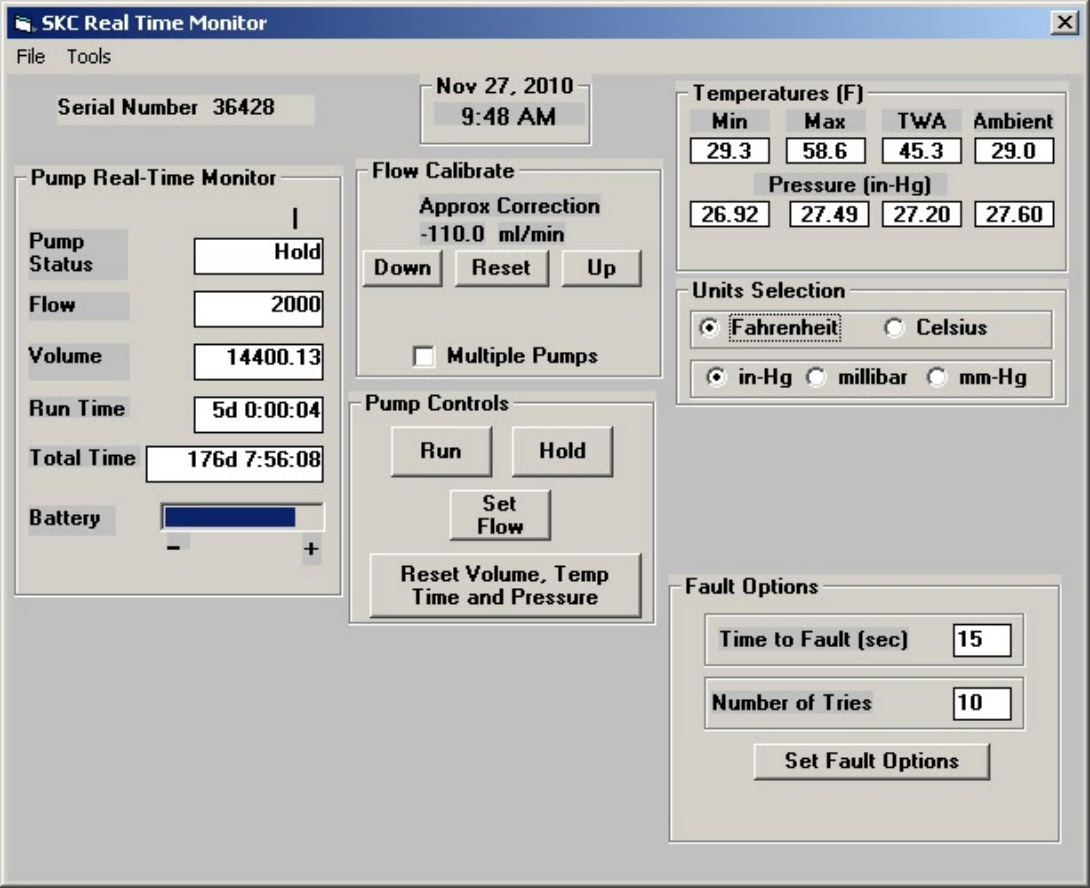
Atmospheric Pressure (INS

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36428
Date Printed: Saturday, November 27, 2010 9:47 AM
Min Temp 29.3F
Max Temp 58.6F
TWA Temp 45.3F
Min Pressure 26.9 In-Hg
Max Pressure 27.5 In-Hg
TWA Pressure 27.2 In-Hg
Flow Correction Approximately -110.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Fri Nov 19 2010 10:57 AM			6:48
Sleep		Fri Nov 19 2010 11:03 AM			12:56:08
Prog (Run)	2000	Sat Nov 20 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Thu Nov 25 2010 12:00 AM			4:59
Sleep		Thu Nov 25 2010 12:05 AM			1d 23:54:59
Hold		Sat Nov 27 2010 12:00 AM			4:58
Sleep		Sat Nov 27 2010 12:04 AM			9:39:54
Hold		Sat Nov 27 2010 9:44 AM			2:08+


SKC Real Time Monitor
File
Tools
Serial Number 36428
Nov 27, 2010
9:48 AM
Temperatures (F)
Min
Max
TWA
Ambient
29.3
58.6
45.3
29.0
Pressure (in-Hg)
26.92
27.49
27.20
27.60
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
176d 7:56:08
Battery
Flow Calibrate
Approx Correction
-110.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20019

Station Location: **Field Blank** Sample ID #:

Field Technician: JJ Filter Lot #: **20526-01**

Pump Type/Model: — Sample Type: **TEM**

Pump Number: — Sample Parent ID #: —

Sampling Period 3

PUMP SETUP DAY

Timer Beginning Date/Time: 11-30-10/2400

Date: 11-29-10 Beginning Flow Rate (L/min): —

Time: 1349 Pump Programmed (Yes / No): —

Bios Calibration Within 10 mL (Yes / No) —

PUMP RETRIEVAL DAY

Timer Ending Date/Time: —

Date: — Ending Flow Rate (L/min): —

Time: — Total Sample Volume (L): —

Total Sample Time (min): —

Atmospheric Pressure (INS) —

Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 11-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SHEET

TA-20020

Station Location: **T-11 (P.Epps)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**
Sampling Peiod: 39

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-29-10
Time: 1350

Timer Beginning Date/Time: 11-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-6-10
Time: 1054

Timer Ending Date/Time: 12-5-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OKL 0
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.23
Temperature inside station unit (°F): 34 /28BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-6-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20020

Station Location: T-11 (P.Epps)
Sample ID #:
Field Technician: QQ
Filter Lot #: 20526-01
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-30-10 (QQ)
Time: 1213 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1466
Cumulative Sample Time (min): 733
Atmospheric pressure (mm Hg): 27.91
Temperature inside station unit (°F): 45.1 Pump / 30 Box
Battery voltage reading (volts): 12.88

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-2-10 (QQ)
Time: 0954 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min): QQ
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) QQ

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20021

Station Location: **T-12 (Fire Station)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**
Sampling Period: 39

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-29-10
Time: 1352

Timer Beginning Date/Time: 11-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-6-10
Time: 1103

Timer Ending Date/Time: 12-5-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.45
Temperature inside station unit (°F): 36 /28 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-6-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20021

Station Location: **T-12 (Fire Station)**
Sample ID #:
Field Technician:
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-30-10 ( )
Time: 1223 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 14.85
Cumulative Sample Time (min): 742
Atmospheric Pressure (INS) 28.24
Temperature inside station unit (°F): 49.7 pump / 35 Box
Battery voltage reading (volts): 12.81

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-2-10 ( )
Time: 1003 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20022

Station Location: **T-13 (Forest Service)**
Field Technician: QA
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36442**
Sampling Period: 39

Sample ID #: _
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-29-10
Time: 1353

Timer Beginning Date/Time: 11-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-6-10
Time: 1115

Timer Ending Date/Time: 12-5-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.08
Temperature inside station unit (°F): 37.7/28BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-6-10

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-20022

Station Location: **T-13 (Forest Service)**
Field Technician: [initials]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36442**
Sample ID #:
Filter Lot #: **20526-01**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-30-10 ([initials])
Time: 1205 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1449
Cumulative Sample Time (min): 724
Atmospheric Pressure (INS) 27.94
Temperature inside station unit (°F): 46.1 Pump / 34 Box
Battery voltage reading (volts): 12.80

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-2-10 ([initials])
Time: 1015 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-20023

Station Location: **T-13QC(forestservice)**
Sample ID #
Field Technician: JJ
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Sample Type: **TEM**
Pump Number: **36444**
Sample Parent ID #: **TA-20022**
Sampling Period: 39

PUMP SETUP DAY

Date: 11-29-10
Time: 1356
Timer Beginning Date/Time: 11-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-6-10
Time: 1116
Timer Ending Date/Time: 12-5-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.88
Temperature inside station unit (°F): 45 /28BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature]
DATE: 12-6-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20023

Station Location: **T-13QC(forestservice)**

Field Technician: [initials]

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36444**

Sample ID #:

Filter Lot #: **20526-01**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-30-10 ([initials])

Time: 1206 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1452

Cumulative Sample Time (min): 726

Atmospheric Pressure (INS) 27.48

Temperature inside station unit (°F): 46.4 pump / 34 box

Battery voltage reading (volts): 12.78

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-2-10 ([initials])

Time: 1016 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20024

Station Location: T-14 (City Lot R\R)
Field Technician: [illegible]
Pump Type/Model: SKC AirChek 2000
Pump Number: 36446
Sampling Period: 39

Sample ID #:
Filter Lot #: 20526-01
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-29-10
Time: 1357

Timer Beginning Date/Time: 11-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-6-10
Time: 1040

Timer Ending Date/Time: 12-5-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.02
Temperature inside station unit (°F): 39/29 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-6-10

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-20024

Station Location: **T-14 (City Lot R\R)**
Sample ID #:
Field Technician: [initials]
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36446**

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 11-30-10 (99)
Time: 1155 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1429
Cumulative Sample Time (min): 714
Atmospheric Pressure (INS) 27.76
Temperature inside station unit (°F): 49.6 Pump / 36 BOX
Battery voltage reading (volts): 12.84

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 12-2-10 (99)
Time: 0940 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20025

Station Location: **T-15 (Ranch Motel)**
Field Technician: JP
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**
Sampling Period: 39

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-29-10
Time: 1358

Timer Beginning Date/Time: 11-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-6-10
Time: 1030

Timer Ending Date/Time: 12-5-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.28
Temperature inside station unit (°F): 37.1/28 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 12-6-10

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-20025

Station Location: **T-15 (Ranch Motel)**
Field Technician: [initials]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**

Sample ID #:
Filter Lot #: **20526-01**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-30-10 ([initials])
Time: 1149 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1419
Cumulative Sample Time (min): 709
Atmospheric Pressure (INS) 28.05
Temperature inside station unit (°F): 47.5 Pump / 33 Box
Battery voltage reading (volts): 12.82

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-2-10 ([initials])
Time: 0930 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20026

Station Location: **T-16 (J. Erickson)**
Field Technician: JJ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**
Sampling Period: 39

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-29-10
Time: 1359

Timer Beginning Date/Time: 11-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-6-10
Time: 1015

Timer Ending Date/Time: 12-5-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.49
Temperature inside station unit (°F): 33.1/29 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-6-10

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-20026

Station Location: T-16 (J. Erickson)
Sample ID #:
Field Technician: gg
Filter Lot #: 20526-01
Pump Type/Model: SKC AirChek 2000
Pump Number: 36422

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 11-30-10 (gg)
Time: 1130 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1381
Cumulative Sample Time (min): 690
Atmospheric Pressure (INS) 27.38
Temperature inside station unit (°F): 44.0 pump/38 Box
Battery voltage reading (volts): 12.98

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 12-2-10 (gg)
Time: 0915 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

gg

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

gg

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20027

Station Location: **T-17 (County Dump)**
Field Technician: QQ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**
Sampling Period: 39

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 11-29-10
Time: 1400

Timer Beginning Date/Time: 11-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-6-10
Time: 1000

Timer Ending Date/Time: 12-5-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFL 0
Total Sample Time (min): 7200
Atmosperic Pressure (INS) 2799
Temperature inside station unit (°F): 36/2880X

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-6-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20027

Station Location: T-17 (County Dump) Sample ID #:

Field Technician: [illegible] Filter Lot #: 20526-01

Pump Type/Model: SKC AirChek 2000

Pump Number: 36428

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 11-30-10 ( )

Time: 1120 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1360

Cumulative Sample Time (min): 680

Atmospheric Pressure (INS) 27.72

Temperature inside station unit (°F): 48.9 PUMP / 32 BOX

Battery voltage reading (volts): 12.90

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-2-10 ( )

Time: 0900 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS

Temperature inside station unit (°F):

Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20028

Station Location: **Field Blank**
Field Technician: JJ
Pump Type/Model: —
Pump Number: —
Sampling Period 40

Sample ID #: —
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-9-10
Time: 1219

Timer Beginning Date/Time: 12-10-10/2400
Beginning Flow Rate (L/min): —
Pump Programmed (Yes / No): —
Bios Calibration Within 10 mL (Yes / No) —

PUMP RETRIEVAL DAY

Date: —
Time: —

Timer Ending Date/Time: —
Ending Flow Rate (L/min): —
Total Sample Volume (L): —
Total Sample Time (min): —
Atmospheric Pressure (INS) —
Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: Jay Jordan DATE: 12-9-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20029

Station Location: **T-11 (P.Epps)**
Field Technician: AA
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**
Sampling Peiod: 40

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-9-10
Time: 1221

Timer Beginning Date/Time: 12-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-15-10
Time: 1010

Timer Ending Date/Time: 12-15-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.46
Temperature inside station unit (°F): 38.6 / 34 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Heavy rain 12-9-10 AA snow + rain throughout period 40 AA

SIGNATURE: [signature] **DATE:** 12-15-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20029

Station Location: **T-11 (P.Epps)** Sample ID #:

Field Technician: 99

Pump Type/Model: **SKC AirChek 2000** Filter Lot #: **20526-01**

Pump Number: **36423**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-10-10 (99)

Time: 1325 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1611

Cumulative Sample Time (min): 805

Atmospheric pressure (mm Hg): 27.62

Temperature inside station unit (°F): 52.8 / 41 BOX

Battery voltage reading (volts): 12.91

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-12-10 (99)

Time: 1210 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) 99

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

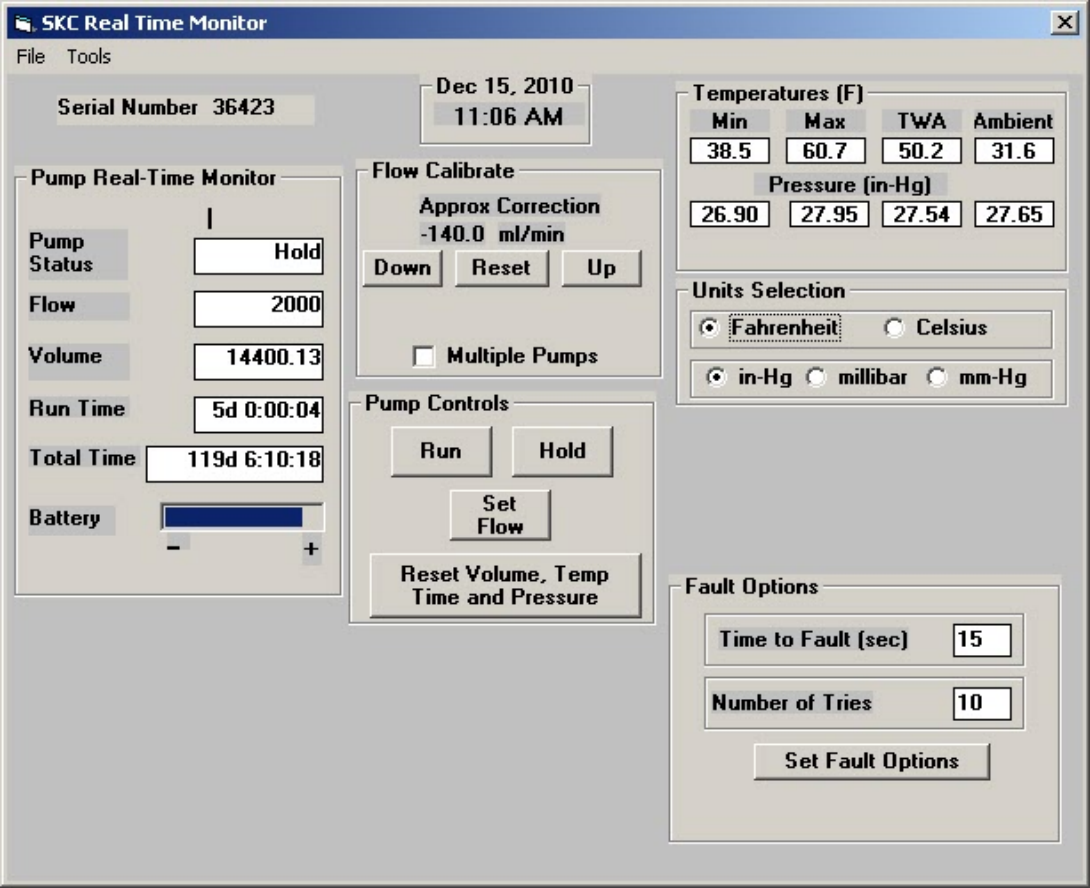
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36423
Date Printed: Wednesday, December 15, 2010 11:06 AM
Min Temp 38.5F
Max Temp 60.7F
TWA Temp 50.2F
Min Pressure 26.9 In-Hg
Max Pressure 28.0 In-Hg
TWA Pressure 27.5 In-Hg
Flow Correction Approximately -140.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Thu Dec 9 2010 1:43 PM			5:43
Sleep		Thu Dec 9 2010 1:49 PM			10:10:39
Prog (Run)	2000	Fri Dec 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Dec 15 2010 12:00 AM			4:59
Sleep		Wed Dec 15 2010 12:05 AM			10:05:06
Hold		Wed Dec 15 2010 10:10 AM			5:36
Sleep		Wed Dec 15 2010 10:15 AM			42:29
Hold		Wed Dec 15 2010 10:58 AM			4:58
Sleep		Wed Dec 15 2010 11:03 AM			0:10
Hold		Wed Dec 15 2010 11:03 AM			2:40+


SKC Real Time Monitor
File
Tools
Serial Number 36423
Dec 15, 2010
11:06 AM
Temperatures (F)
Min
Max
TWA
Ambient
38.5
60.7
50.2
31.6
Pressure (in-Hg)
26.90
27.95
27.54
27.65
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
119d 6:10:18
Battery
Flow Calibrate
Approx Correction
-140.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20030

Station Location: **T-12 (Fire Station)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**
Sampling Period: 40

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-9-10
Time: 1223

Timer Beginning Date/Time: 12-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-15-10
Time: 1001

Timer Ending Date/Time: 12-15-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.74
Temperature inside station unit (°F): 43.0/34Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Heavy rain 12-9-10 # Snow + rain throughout period 40#

SIGNATURE: [signature] DATE: 12-15-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20030

Station Location: **T-12 (Fire Station)**
Sample ID #:
Field Technician: GG
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-10-10 (GG)
Time: 1331 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1622
Cumulative Sample Time (min): 811
Atmospheric Pressure (INS) 28.03
Temperature inside station unit (°F): 58.5 / 45.6 0X
Battery voltage reading (volts): 12.80

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-12-10 (GG)
Time: 1201 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS) GG
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( ) GG

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

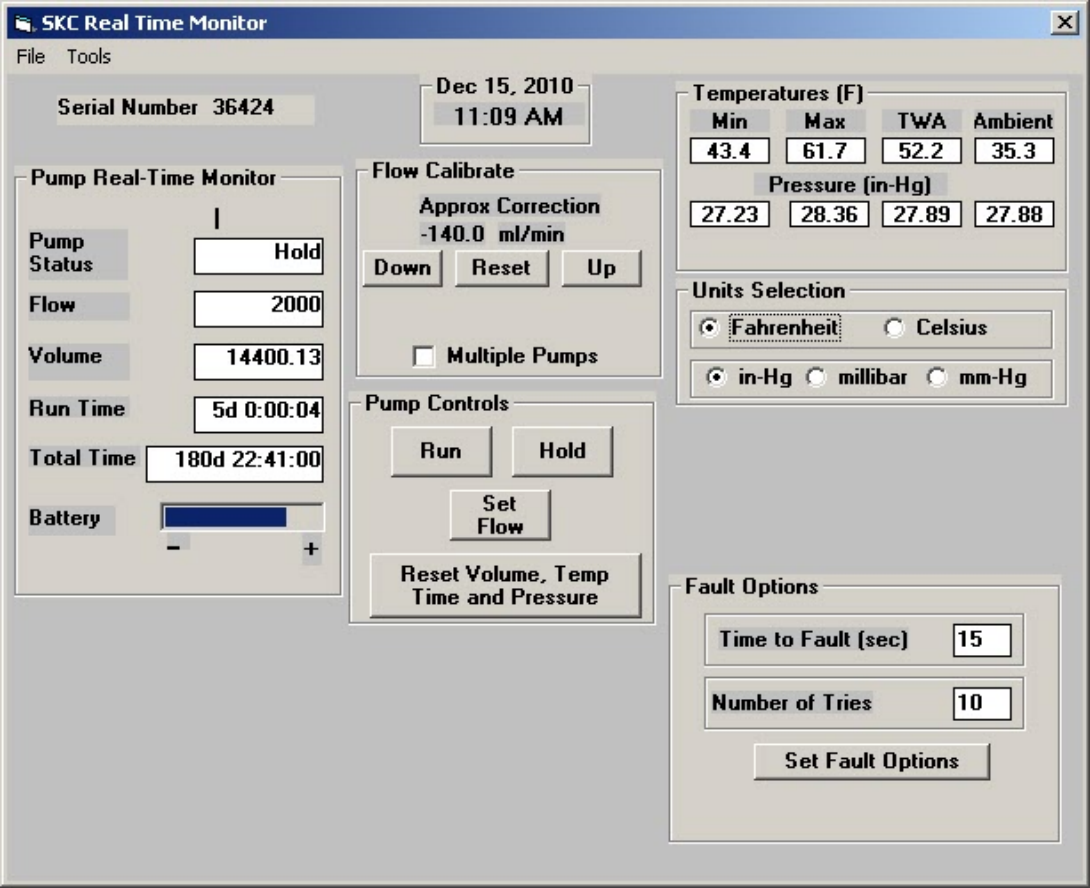
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36424
Date Printed: Wednesday, December 15, 2010 11:08 AM
Min Temp 43.4F
Max Temp 61.7F
TWA Temp 52.2F
Min Pressure 27.2 In-Hg
Max Pressure 28.4 In-Hg
TWA Pressure 27.9 In-Hg
Flow Correction Approximately -140.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Thu Dec 9 2010 1:45 PM			10:52
Sleep		Thu Dec 9 2010 1:56 PM			10:03:53
Prog (Run)	2000	Fri Dec 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Dec 15 2010 12:00 AM			4:59
Sleep		Wed Dec 15 2010 12:05 AM			9:56:25
Hold		Wed Dec 15 2010 10:01 AM			5:06
Sleep		Wed Dec 15 2010 10:06 AM			57:11
Hold		Wed Dec 15 2010 11:03 AM			4:17+


SKC Real Time Monitor
File
Tools
Serial Number 36424
Dec 15, 2010
11:09 AM
Temperatures (F)
Min
Max
TWA
Ambient
43.4
61.7
52.2
35.3
Pressure (in-Hg)
27.23
28.36
27.89
27.88
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
180d 22:41:00
Battery
Flow Calibrate
Approx Correction
-140.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20031

Station Location: T-13 (Forest Service)
Field Technician: JJ
Pump Type/Model: SKC AirChek 2000
Pump Number: 36442
Sampling Period: 40

Sample ID #:
Filter Lot #: 20526-01
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-9-10
Time: 1224

Timer Beginning Date/Time: 12-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-15-10
Time: 1020

Timer Ending Date/Time: 12-15-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7817
Atmospheric Pressure (INS) 26.97
Temperature inside station unit (°F): 81.0/37 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Heavy rain 12-9-10 JJ
Pump Station #13 still running
at pickup 12-15-10 JJ
rain & snow throughout Period 40 JJ

SIGNATURE: [signature] DATE: 12-15-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-20031

Station Location: **T-13 (Forest Service)**
Sample ID #:
Field Technician: [initials]
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36442**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-10-10 (GG)
Time: 1320 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1599
Cumulative Sample Time (min): 799
Atmospheric Pressure (INS): 27.73
Temperature inside station unit (°F): 54.0 / 42 BOX
Battery voltage reading (volts): 12.8

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-12-10 (GG)
Time: 1220 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

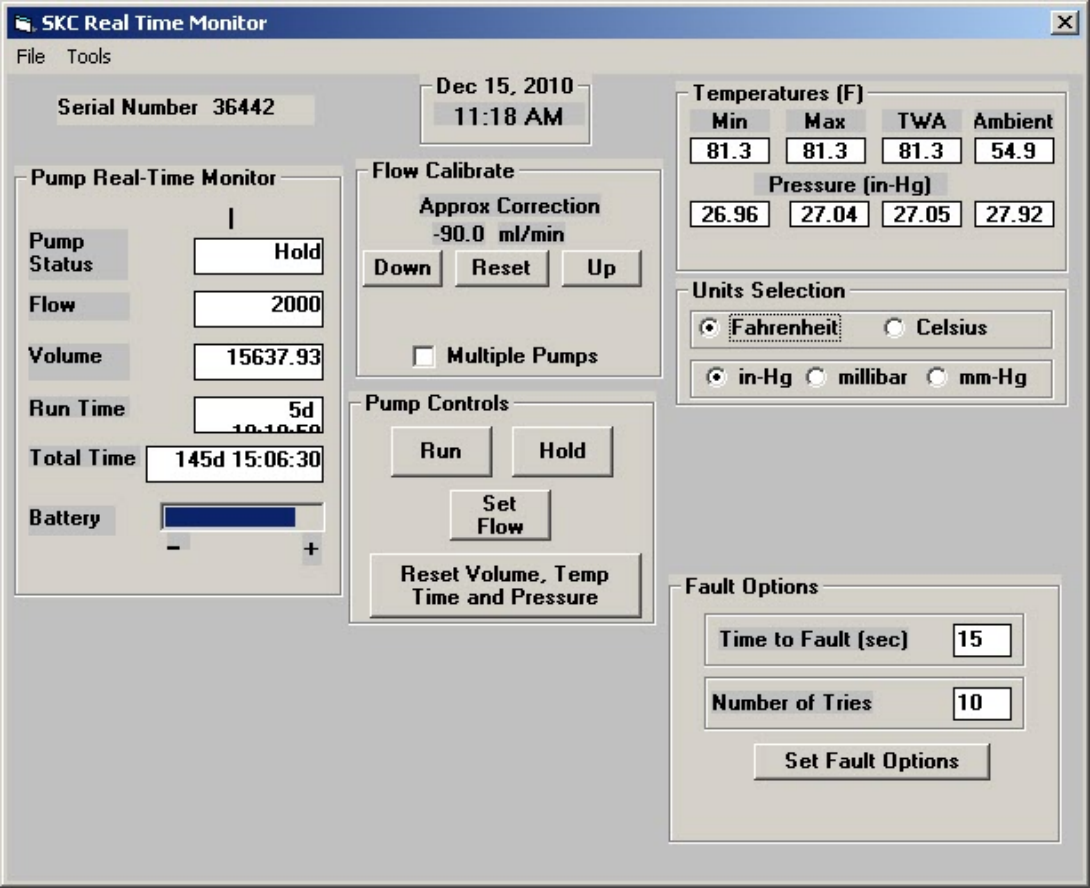
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36442
Date Printed: Wednesday, December 15, 2010 11:17 AM
Min Temp 81.3F
Max Temp 81.3F
TWA Temp 81.3F
Min Pressure 27.0 In-Hg
Max Pressure 27.0 In-Hg
TWA Pressure 27.0 In-Hg
Flow Correction Approximately -90.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Thu Dec 9 2010 1:51 PM			5:45
Sleep		Thu Dec 9 2010 1:57 PM			10:02:35
Prog (Run)	2000	Fri Dec 10 2010 12:00 AM	11510	11510	3d 23:55:02
Reset		Mon Dec 13 2010 11:55 PM			0:01
Flow	2000	Mon Dec 13 2010 11:55 PM	2212	13722	18:26:08
Reset		Tue Dec 14 2010 6:21 PM			0:01
Flow	2000	Tue Dec 14 2010 6:21 PM	99.50	13822	49:45
Reset		Tue Dec 14 2010 7:10 PM			0:01
Flow	2000	Tue Dec 14 2010 7:10 PM	0.333	13822	0:10
Reset		Tue Dec 14 2010 7:11 PM			0:01
Flow	2000	Tue Dec 14 2010 7:11 PM	0.000	13822	
Reset		Tue Dec 14 2010 7:11 PM			0:01
Flow	2000	Tue Dec 14 2010 7:11 PM	1.000	13823	0:30
Reset		Tue Dec 14 2010 7:11 PM			0:01
Flow	2000	Tue Dec 14 2010 7:11 PM	0.333	13824	0:10
Reset		Tue Dec 14 2010 7:11 PM			0:01
Flow	2000	Tue Dec 14 2010 7:11 PM	0.600	13824	0:18
Reset		Tue Dec 14 2010 7:12 PM			0:01
Flow	2000	Tue Dec 14 2010 7:12 PM	326.3	14150	2:43:10
Reset		Tue Dec 14 2010 9:55 PM			0:01
Flow	2000	Tue Dec 14 2010 9:55 PM	1485	15636	12:22:33
Reset		Wed Dec 15 2010 10:17 AM			0:01
Flow	2000	Wed Dec 15 2010 10:17 AM	5.900	15641	2:57
Hold		Wed Dec 15 2010 10:20 AM			4:59
Sleep		Wed Dec 15 2010 10:25 AM			41:35
Hold		Wed Dec 15 2010 11:07 AM			9:33+


SKC Real Time Monitor
File
Tools
Serial Number 36442
Dec 15, 2010
11:18 AM
Temperatures (F)
Min
Max
TWA
Ambient
81.3
81.3
81.3
54.9
Pressure (in-Hg)
26.96
27.04
27.05
27.92
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
15637.93
Run Time
5d
Total Time
145d 15:06:30
Battery
Flow Calibrate
Approx Correction
-90.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20032

Station Location: **T-14 (City Lot R\R)**
Field Technician: QF
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36446**
Sampling Period: 40

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-9-10
Time: 1225

Timer Beginning Date/Time: 12-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-15-10
Time: 0944

Timer Ending Date/Time: 12-15-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.27
Temperature inside station unit (°F): 52.1/35 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Heavy rain 12-9-10 QF snow + rain
throughout period 40 QF

SIGNATURE: [signature] **DATE:** 12-15-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20032

Station Location: T-14 (City Lot R\R)
Sample ID #:
Field Technician: [initials]
Filter Lot #: 20526-01
Pump Type/Model: SKC AirChek 2000
Pump Number: 36446

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-10-10 ([initials])
Time: 1310 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1580
Cumulative Sample Time (min): 790
Atmospheric Pressure (INS) 27.47
Temperature inside station unit (°F): 56.4 / 42 BOX
Battery voltage reading (volts): 12.84

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-12-10 ([initials])
Time: 1144 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

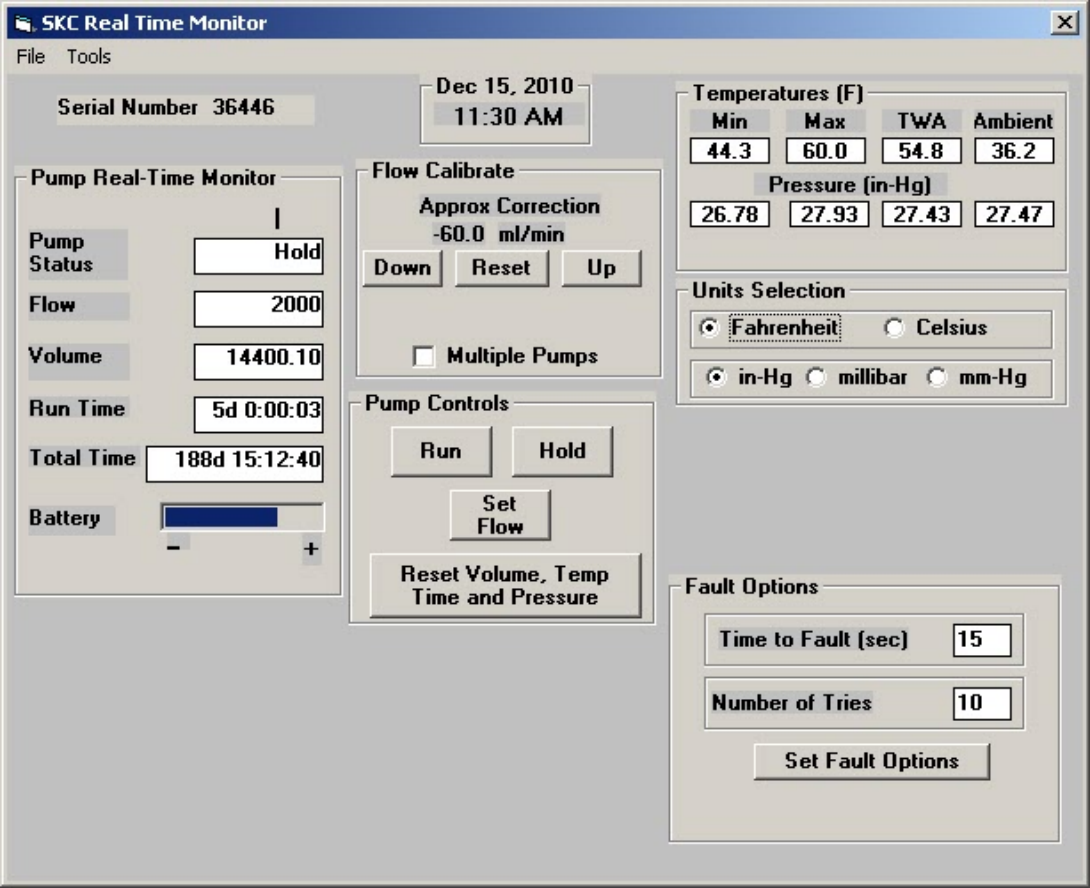
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36446
Date Printed: Wednesday, December 15, 2010 11:30 AM
Min Temp 44.3F
Max Temp 60.0F
TWA Temp 54.8F
Min Pressure 26.8 In-Hg
Max Pressure 27.9 In-Hg
TWA Pressure 27.4 In-Hg
Flow Correction Approximately -60.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Thu Dec 9 2010 2:03 PM			5:05
Sleep		Thu Dec 9 2010 2:08 PM			9:51:55
Prog (Run)	2000	Fri Dec 10 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Wed Dec 15 2010 12:00 AM			4:59
Sleep		Wed Dec 15 2010 12:05 AM			9:39:27
Hold		Wed Dec 15 2010 9:44 AM			5:17
Sleep		Wed Dec 15 2010 9:49 AM			1:33:34
Hold		Wed Dec 15 2010 11:23 AM			6:42+


SKC Real Time Monitor
File
Tools
Serial Number 36446
Dec 15, 2010
11:30 AM
Temperatures (F)
Min
Max
TWA
Ambient
44.3
60.0
54.8
36.2
Pressure (in-Hg)
26.78
27.93
27.43
27.47
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.10
Run Time
5d 0:00:03
Total Time
188d 15:12:40
Battery
Flow Calibrate
Approx Correction
-60.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20033

Station Location: T-14QC(CityLotR\R)
Field Technician: [illegible]
Pump Type/Model: SKC AirChek 2000
Pump Number: 36444
Sampling Period: 40

Sample ID #:
Filter Lot #: 20526-01
Sample Type: TEM
Sample Parent ID #: **TA-20032**

PUMP SETUP DAY

Date: 12-9-10
Time: 1226

Timer Beginning Date/Time: 12-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-15-10
Time: 0947

Timer Ending Date/Time: 12-15-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.28
Temperature inside station unit (°F): 53 / 35 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Heavy rain 12-9-10 [illegible] snow + rain throughout period [illegible]

SIGNATURE: [signature]

DATE: 12-15-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20033

Station Location: **T-14QC(CityLotR\R)** Sample ID #:

Field Technician: **[illegible]** Filter Lot #: **20526-01**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36444**

DAILY CHECK (For each station visit)

	(Field Tech Initials)	
Date: 12-10-10	([illegible])	PUMP FAULT (Yes / No): NO
Time: 1312	( )	Flow Rate (L/min): 2
		Cumulative Sample Volume (L): 1584
		Cumulative Sample Time (min): 792
		Atmospheric Pressure (INS) 27.28
		Temperature inside station unit (°F): 69.0 / 42 BOX
		Battery voltage reading (volts): 12.69

DAILY CHECK (For each station visit)

	(Field Tech Initials)	
Date: 12-12-10	([illegible])	PUMP FAULT (Yes / No): NO
Time: 1147	( )	Flow Rate (L/min):
		Cumulative Sample Volume (L):
		Cumulative Sample Time (min):
		Atmospheric Pressure (INS)
		Temperature inside station unit (°F):
		Battery voltage reading (volts):

DAILY CHECK (For each station visit)

	(Field Tech Initials)	
Date:	( )	PUMP FAULT (Yes / No):
Time:	( )	Flow Rate (L/min):
		Cumulative Sample Volume (L):
		Cumulative Sample Time (min):
		Atmospheric Pressure (INS)
		Temperature inside station unit (°F):
		Battery voltage reading (volts):

DAILY CHECK (For each station visit)

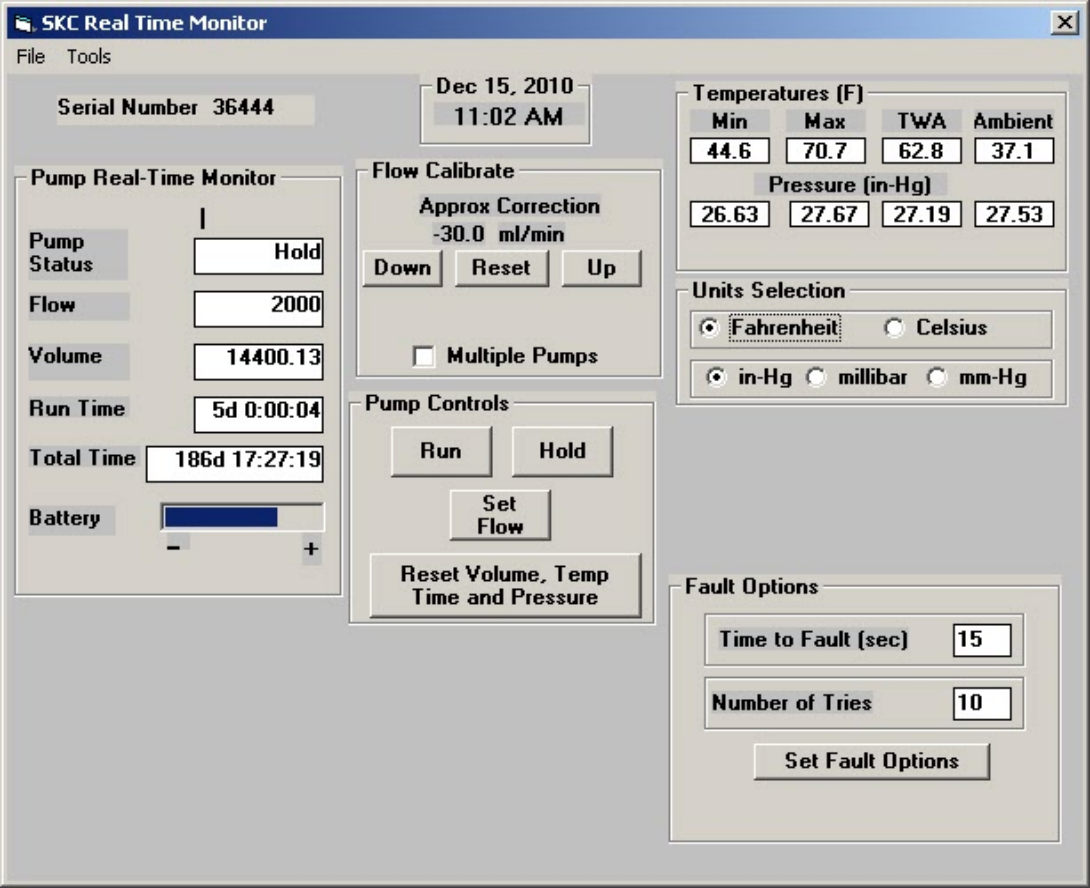
	(Field Tech Initials)	
Date:	([illegible])	PUMP FAULT (Yes / No):
Time:	( )	Flow Rate (L/min):
		Cumulative Sample Volume (L):
		Cumulative Sample Time (min):
		Atmospheric Pressure (INS)
		Temperature inside station unit (°F):
		Battery voltage reading (volts):

DAILY CHECK (For each station visit)

	(Field Tech Initials)	
Date:	( )	PUMP FAULT (Yes / No):
Time:	( )	Flow Rate (L/min):
		Cumulative Sample Volume (L):
		Cumulative Sample Time (min):
		Atmospheric Pressure (INS)
		Temperature inside station unit (°F):
		Battery voltage reading (volts):

SKC Pump History
SN 36444
Date Printed: Wednesday, December 15, 2010 11:01 AM
Min Temp 44.6F
Max Temp 70.7F
TWA Temp 62.8F
Min Pressure 26.6 In-Hg
Max Pressure 27.7 In-Hg
TWA Pressure 27.2 In-Hg
Flow Correction Approximately -30.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Thu Dec 9 2010 1:53 PM			6:02
Sleep		Thu Dec 9 2010 1:59 PM			10:00:37
Prog (Run)	2000	Fri Dec 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Dec 15 2010 12:00 AM			4:59
Sleep		Wed Dec 15 2010 12:05 AM			9:42:25
Hold		Wed Dec 15 2010 9:47 AM			5:31
Sleep		Wed Dec 15 2010 9:52 AM			1:04:18
Hold		Wed Dec 15 2010 10:57 AM			3:45+


SKC Real Time Monitor
File
Tools
Serial Number 36444
Dec 15, 2010
11:02 AM
Temperatures (F)
Min
Max
TWA
Ambient
44.6
70.7
62.8
37.1
Pressure (in-Hg)
26.63
27.67
27.19
27.53
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
186d 17:27:19
Battery
Flow Calibrate
Approx Correction
-30.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20034

Station Location: **T-15 (Ranch Motel)**
Field Technician: JJ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**
Sampling Period: 40

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-9-10
Time: 1228

Timer Beginning Date/Time: 12-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-15-10
Time: 0935

Timer Ending Date/Time: 12-15-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.57
Temperature inside station unit (°F): 40.1/32Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Heavy rain 12-9-10 JJ snow & rain throughout period JJ

SIGNATURE: [signature] DATE: 12-15-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20034

Station Location: **T-15 (Ranch Motel)**
Field Technician: [initials]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**
Sample ID #:
Filter Lot #: **20526-01**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-10-10 ([initials])
Time: 1305 ( )

PUMP FAULT (Yes / No): No
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1571
Cumulative Sample Time (min): 785
Atmospheric Pressure (INS) 27.84
Temperature inside station unit (°F): 56.0 / 42 BOX
Battery voltage reading (volts): 12.82

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-12-10 ([initials])
Time: 1135 ( )

PUMP FAULT (Yes / No): No
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

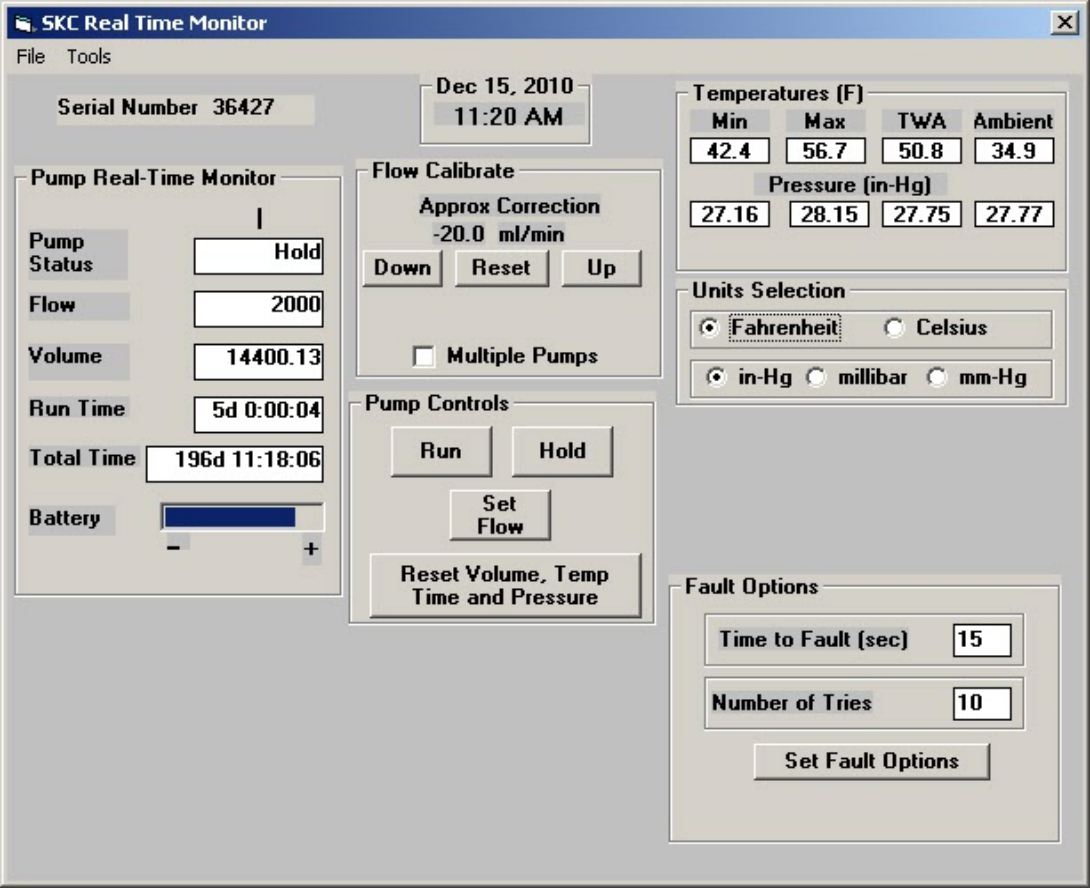
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36427
Date Printed: Wednesday, December 15, 2010 11:20 AM
Min Temp 42.4F
Max Temp 56.7F
TWA Temp 50.8F
Min Pressure 27.2 In-Hg
Max Pressure 28.2 In-Hg
TWA Pressure 27.7 In-Hg
Flow Correction Approximately -20.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Thu Dec 9 2010 2:00 PM			5:46
Sleep		Thu Dec 9 2010 2:06 PM			9:53:32
Prog (Run)	2000	Fri Dec 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Dec 15 2010 12:00 AM			4:59
Sleep		Wed Dec 15 2010 12:05 AM			9:30:27
Hold		Wed Dec 15 2010 9:35 AM			5:21
Sleep		Wed Dec 15 2010 9:40 AM			1:30:35
Hold		Wed Dec 15 2010 11:11 AM			4:58
Sleep		Wed Dec 15 2010 11:16 AM			2:01
Hold		Wed Dec 15 2010 11:18 AM			1:37+


SKC Real Time Monitor
File
Tools
Serial Number 36427
Dec 15, 2010
11:20 AM
Temperatures (F)
Min
Max
TWA
Ambient
42.4
56.7
50.8
34.9
Pressure (in-Hg)
27.16
28.15
27.75
27.77
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
196d 11:18:06
Battery
Flow Calibrate
Approx Correction
-20.0 ml/min
Down
Reset
Up
Multiple Pumps
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20035

Station Location: **T-16 (J. Erickson)**
Field Technician: JP
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**
Sampling Period: 40

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-9-10
Time: 1229

Timer Beginning Date/Time: 12-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-15-10
Time: 0922

Timer Ending Date/Time: 12-15-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 26.98
Temperature inside station unit (°F): 37.2/34 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Heavy rain 12-9-10 JP snow & rain throughout period 40 JP

SIGNATURE: [signature] DATE: 12-15-10

TA-20035

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

Station Location: **T-16 (J. Erickson)**
Sample ID #:
Field Technician: gg
Filter Lot #: **20526-01**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-10-10 (gg)
Time: 1256 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1552
Cumulative Sample Time (min): 776
Atmospheric Pressure (INS) 27.14
Temperature inside station unit (°F): 52.5 / 46 Box
Battery voltage reading (volts): 12.82

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-12-10 (gg)
Time: 1122 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min): gg
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

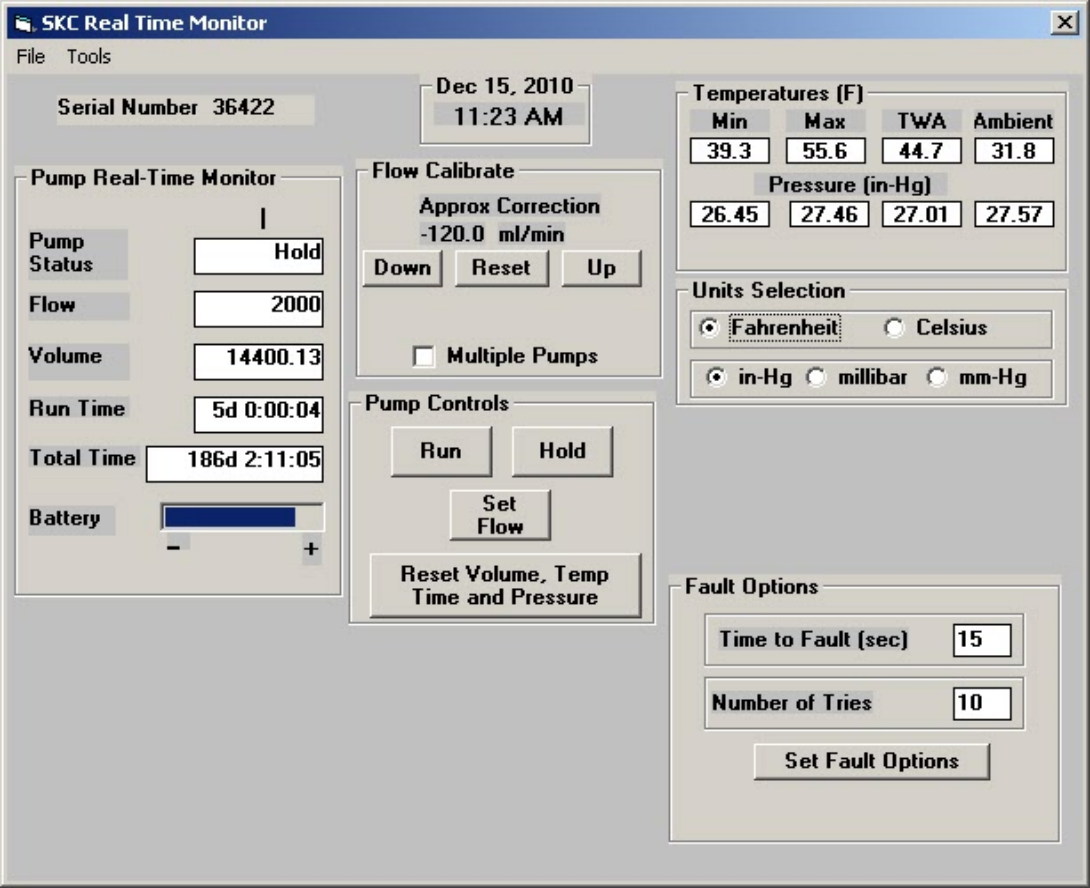
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36422
Date Printed: Wednesday, December 15, 2010 11:22 AM
Min Temp 39.3F
Max Temp 55.6F
TWA Temp 44.7F
Min Pressure 26.5 In-Hg
Max Pressure 27.5 In-Hg
TWA Pressure 27.0 In-Hg
Flow Correction Approximately -120.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Thu Dec 9 2010 1:56 PM			8:49
Sleep		Thu Dec 9 2010 2:04 PM			9:55:05
Prog (Run)	2000	Fri Dec 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Dec 15 2010 12:00 AM			4:59
Sleep		Wed Dec 15 2010 12:05 AM			9:17:25
Hold		Wed Dec 15 2010 9:22 AM			5:30
Sleep		Wed Dec 15 2010 9:27 AM			1:53:00
Hold		Wed Dec 15 2010 11:20 AM			1:04+


SKC Real Time Monitor
File
Tools
Serial Number 36422
Dec 15, 2010
11:23 AM
Temperatures (F)
Min
Max
TWA
Ambient
39.3
55.6
44.7
31.8
Pressure (in-Hg)
26.45
27.46
27.01
27.57
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
186d 2:11:05
Battery
Flow Calibrate
Approx Correction
-120.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20036

Station Location: **T-17 (County Dump)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**
Sampling Period: 40

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-9-10
Time: 1230

Timer Beginning Date/Time: 12-10-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-15-10
Time: 0908

Timer Ending Date/Time: 12-15-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmosperic Pressure (INS) 27.39
Temperature inside station unit (°F): 43.5 / 32 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Heavy rain 12-9-10 off snow & rain during period 40

SIGNATURE: [signature] DATE: 12-15-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20036

Station Location: **T-17 (County Dump)** Sample ID #:

Field Technician:

Pump Type/Model: **SKC AirChek 2000** Filter Lot #: **20526-01**

Pump Number: **36428**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-10-10 ( )

Time: 1246 ( )

PUMP FAULT (Yes / No): No

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1532

Cumulative Sample Time (min): 765

Atmospheric Pressure (INS) 27.43

Temperature inside station unit (°F): 58.8 / 40 Box

Battery voltage reading (volts): 12.88

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-12-10 ( )

Time: 1108 ( )

PUMP FAULT (Yes / No): √ O

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

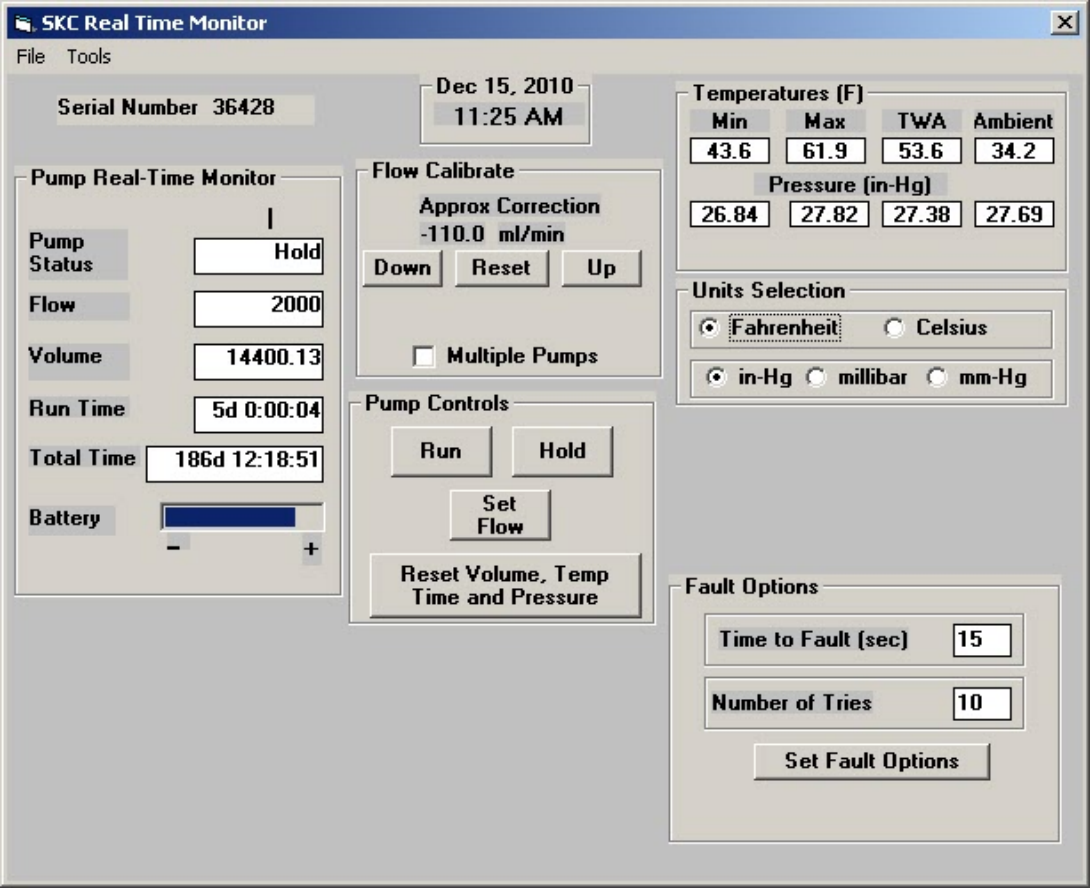
Atmospheric Pressure (INS

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36428
Date Printed: Wednesday, December 15, 2010 11:24 AM
Min Temp 43.6F
Max Temp 61.9F
TWA Temp 53.6F
Min Pressure 26.8 In-Hg
Max Pressure 27.8 In-Hg
TWA Pressure 27.4 In-Hg
Flow Correction Approximately -110.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Thu Dec 9 2010 1:55 PM			5:40
Sleep		Thu Dec 9 2010 2:00 PM			9:59:18
Prog (Run)	2000	Fri Dec 10 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Wed Dec 15 2010 12:00 AM			4:59
Sleep		Wed Dec 15 2010 12:05 AM			9:03:30
Hold		Wed Dec 15 2010 9:08 AM			5:15
Sleep		Wed Dec 15 2010 9:13 AM			2:07:18
Hold		Wed Dec 15 2010 11:21 AM			3:56+


SKC Real Time Monitor
File
Tools
Serial Number 36428
Dec 15, 2010
11:25 AM
Temperatures (F)
Min
Max
TWA
Ambient
43.6
61.9
53.6
34.2
Pressure (in-Hg)
26.84
27.82
27.38
27.69
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
186d 12:18:51
Battery
Flow Calibrate
Approx Correction
-110.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20037

Station Location: **Field Blank** Sample ID #: —

Field Technician: [illegible] Filter Lot #: **20526-01**

Pump Type/Model: — Sample Type: **TEM**

Pump Number: — Sample Parent ID #: —

Sampling Period 41

PUMP SETUP DAY

Date: 12-19-10 Timer Beginning Date/Time: 12-20-10/2400

Time: 0936 Beginning Flow Rate (L/min): —

Pump Programmed (Yes / No): —

Bios Calibration Within 10 mL (Yes / No) —

PUMP RETRIEVAL DAY

Date: — Timer Ending Date/Time: —

Time: — Ending Flow Rate (L/min): —

Total Sample Volume (L): —

Total Sample Time (min): —

Atmospheric Pressure (INS) —

Temperature inside station unit (°F):

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 12-19-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20038

Station Location: **T-11 (P.Epps)**
Field Technician: **AA**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**
Sampling Peiod: **41**

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-19-10
Time: 0937

Timer Beginning Date/Time: 12-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-27-10
Time: 1038

Timer Ending Date/Time: 12-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0F40
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.84
Temperature inside station unit (°F): 28.4/32BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 12-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20038

Station Location: **T-11 (P.Epps)**
Field Technician: **[illegible]**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**

Sample ID #:
Filter Lot #: **20526-01**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-20-10 ( )
Time: 1758 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric pressure (mm Hg):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-21-10 ( )
Time: 1350 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 4540
Cumulative Sample Time (min): 2270
Atmospheric Pressure (INS) 27.64
Temperature inside station unit (°F): 49.6 /3680X
Battery voltage reading (volts): 12.76

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-22-10 ( )
Time: 1245 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

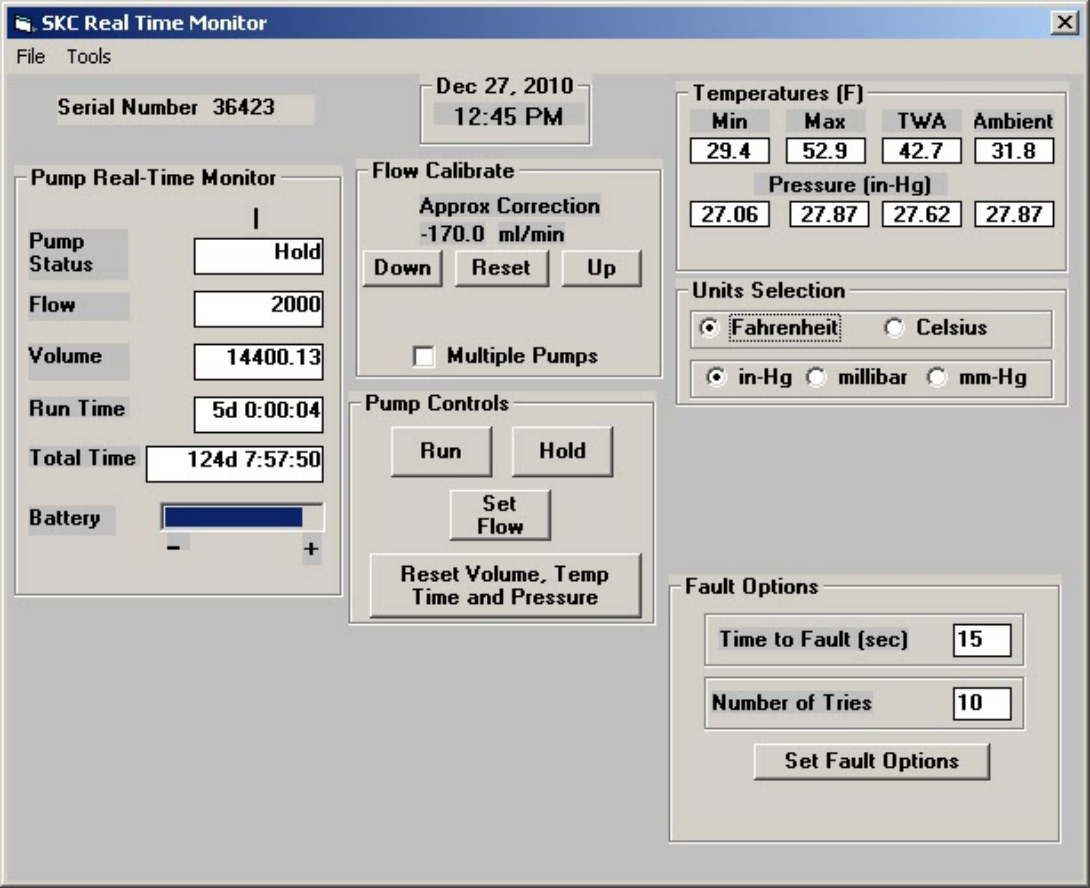
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36423
Date Printed: Monday, December 27, 2010 12:45 PM
Min Temp 29.4F
Max Temp 52.9F
TWA Temp 42.7F
Min Pressure 27.1 In-Hg
Max Pressure 27.9 In-Hg
TWA Pressure 27.6 In-Hg
Flow Correction Approximately -170.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Sun Dec 19 2010 11:03 AM			7:10
Sleep		Sun Dec 19 2010 11:10 AM			12:49:05
Prog (Run)	2000	Mon Dec 20 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Sat Dec 25 2010 12:00 AM			4:59
Sleep		Sat Dec 25 2010 12:05 AM			1d 23:54:59
Hold		Mon Dec 27 2010 12:00 AM			4:58
Sleep		Mon Dec 27 2010 12:04 AM			10:32:42
Hold		Mon Dec 27 2010 10:37 AM			5:21
Sleep		Mon Dec 27 2010 10:43 AM			2:01:28
Hold		Mon Dec 27 2010 12:44 PM			0:31+


SKC Real Time Monitor
File
Tools
Serial Number 36423
Dec 27, 2010
12:45 PM
Temperatures (F)
Min
Max
TWA
Ambient
29.4
52.9
42.7
31.8
Pressure (in-Hg)
27.06
27.87
27.62
27.87
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
124d 7:57:50
Battery
Flow Calibrate
Approx Correction
-170.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20039

Station Location: **T-12 (Fire Station)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**
Sampling Period: 41

Sample ID #:
Filter Lot #: **20526-01**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-19-10
Time: 0938

Timer Beginning Date/Time: 12-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-27-10
Time: 1048

Timer Ending Date/Time: 12-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28,05
Temperature inside station unit (°F): 32.2 35 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20039

Station Location: **T-12 (Fire Station)** Sample ID #:

Field Technician:

Pump Type/Model: **SKC AirChek 2000** Filter Lot #: **20526-01**

Pump Number: **36424**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-20-10 ( )

Time: 1807 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-21-10 ( )

Time: 1355 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 4550

Cumulative Sample Time (min): 2275

Atmospheric Pressure (INS) 28.02

Temperature inside station unit (°F): 54.2 / 42 BOX

Battery voltage reading (volts): 12.74

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-22-10 ( )

Time: 1250 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

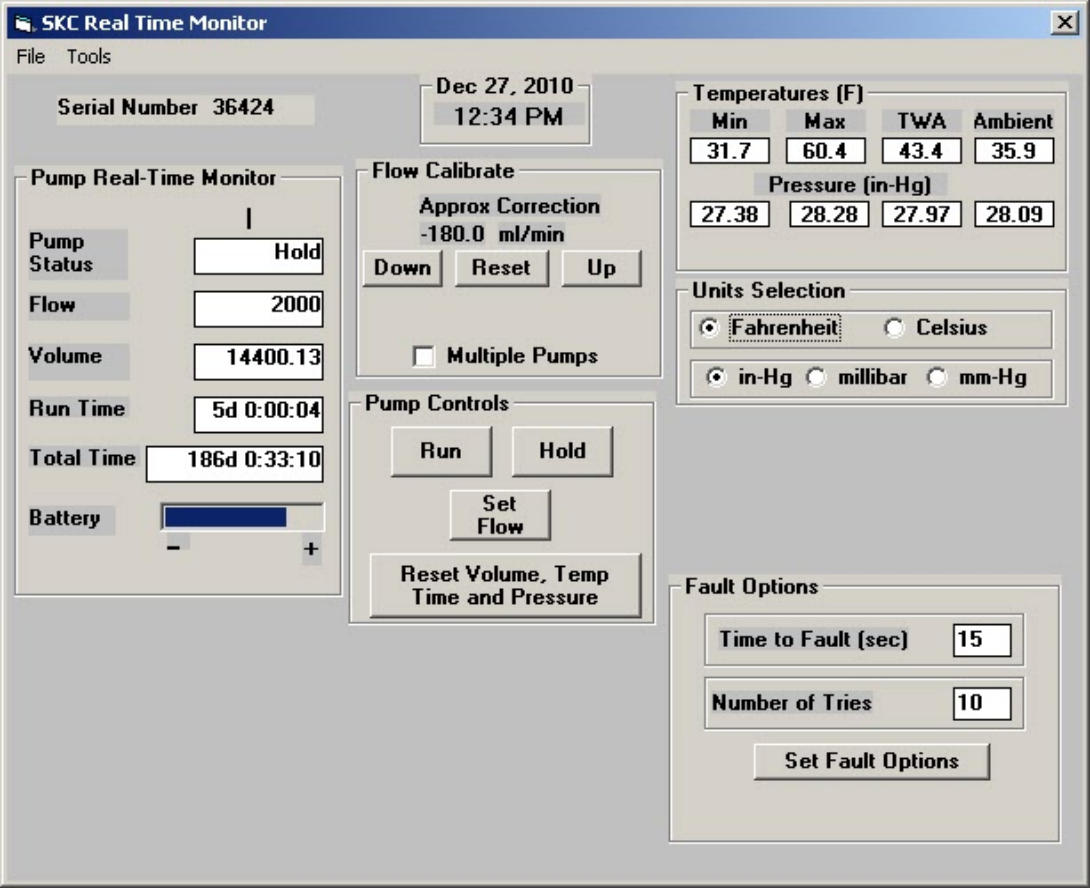
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36424
Date Printed: Monday, December 27, 2010 12:34 PM
Min Temp 31.7F
Max Temp 60.4F
TWA Temp 43.4F
Min Pressure 27.4 In-Hg
Max Pressure 28.3 In-Hg
TWA Pressure 28.0 In-Hg
Flow Correction Approximately -180.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Sun Dec 19 2010 11:06 AM			7:04
Sleep		Sun Dec 19 2010 11:13 AM			12:46:02
Prog (Run)	2000	Mon Dec 20 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Dec 25 2010 12:00 AM			4:59
Sleep		Sat Dec 25 2010 12:05 AM			1d 23:54:59
Hold		Mon Dec 27 2010 12:00 AM			4:58
Sleep		Mon Dec 27 2010 12:04 AM			10:42:24
Hold		Mon Dec 27 2010 10:47 AM			5:38
Sleep		Mon Dec 27 2010 10:53 AM			1:37:40
Hold		Mon Dec 27 2010 12:30 PM			3:20+


SKC Real Time Monitor
File
Tools
Serial Number 36424
Dec 27, 2010
12:34 PM
Temperatures (F)
Min
Max
TWA
Ambient
31.7
60.4
43.4
35.9
Pressure (in-Hg)
27.38
28.28
27.97
28.09
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
186d 0:33:10
Battery
Flow Calibrate
Approx Correction
-180.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20046**

Station Location: **T-13 (Forest Service)** Sample ID #:

Field Technician: JG Filter Lot #: **20526-01**

Pump Type/Model: **SKC AirChek 2000** Sample Type: **TEM**

Pump Number: ~~36442~~ 36446 B Sample Parent ID #: —

Sampling Period: 41

PUMP SETUP DAY

Date: 12-19-10 Timer Beginning Date/Time: 12-20-10/2400

Time: 0939 Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-27-10 Timer Ending Date/Time: 12-25-10/2400

Time: 1029 Ending Flow Rate (L/min): 2

Total Sample Volume (L): 5427

Total Sample Time (min): 2713

Atmospheric Pressure (INS) 27.90

Temperature inside station unit (°F): 33.7 / 31 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Pump fault 12-20-10 changed out with ~~the~~ different Pump serial # 36446 M rescheduled to start at 1845 12-20-10

SIGNATURE: [signature] **DATE:** 12-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20046

Station Location: **T-13 (Forest Service)** Sample ID #:

Field Technician: GP Filter Lot #: **20526-01**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: ~~36442~~ / 36446 B

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-20-10 (GP)
Time: 1502 ( )

Pump ser.# 36442

PUMP FAULT (Yes / No): Yes
Flow Rate (L/min): changed out pump
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-21-10 (GP)
Time: 1401 ( )

Pump - ser.# 36446

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 2312
Cumulative Sample Time (min): 1156
Atmospheric Pressure (INS) 27.72
Temperature inside station unit (°F): 51.1 / 37 Box
Battery voltage reading (volts): 12.74

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-22-0 (GP)
Time: 1240 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

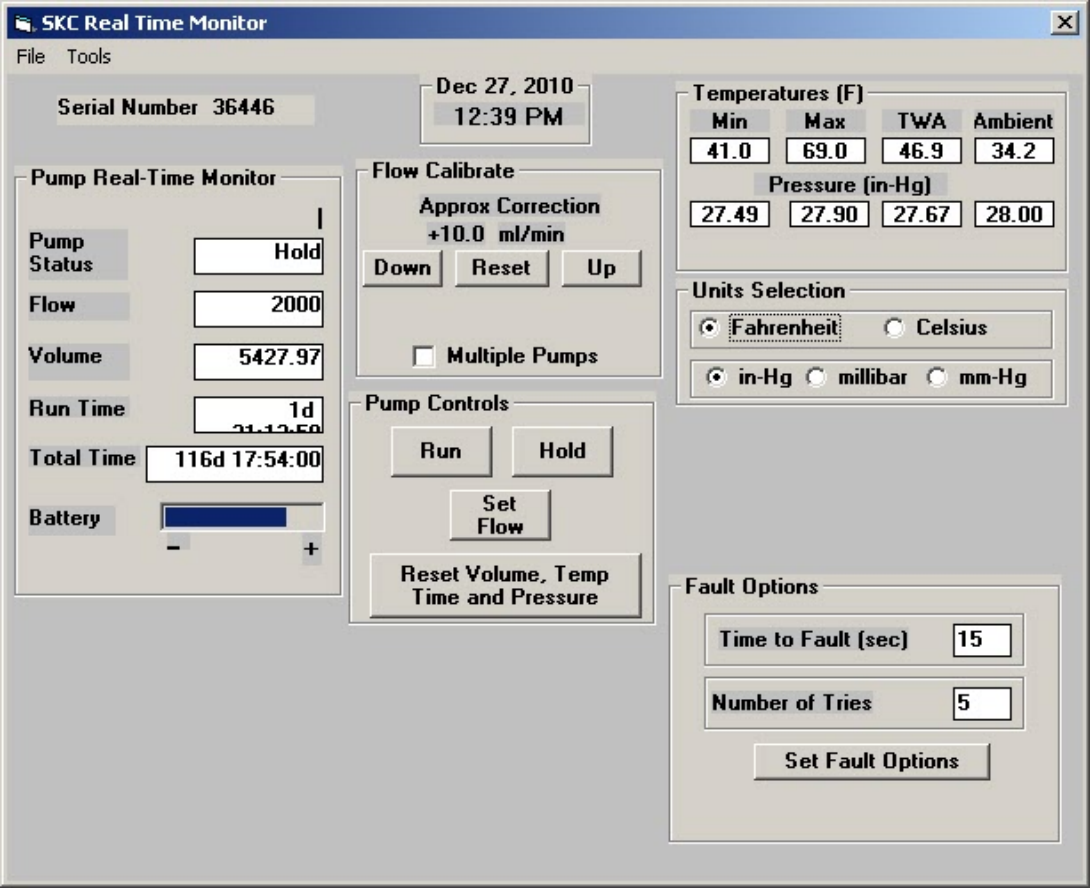
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36446
Date Printed: Monday, December 27, 2010 12:37 PM
Min Temp 41.0F
Max Temp 69.0F
TWA Temp 46.9F
Min Pressure 27.5 In-Hg
Max Pressure 27.9 In-Hg
TWA Pressure 27.7 In-Hg
Flow Correction Approximately +10.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Mon Dec 20 2010 6:16 PM			5:03
Sleep		Mon Dec 20 2010 6:21 PM			23:55
Prog (Run)	2000	Mon Dec 20 2010 6:45 PM	5428	5428	1d 21:13:58
Low Bat		Wed Dec 22 2010 3:58 PM			0:10
Sleep		Wed Dec 22 2010 3:59 PM			4d 18:29:25
Hold		Mon Dec 27 2010 10:28 AM			5:42
Sleep		Mon Dec 27 2010 10:34 AM			2:02:11
Hold		Mon Dec 27 2010 12:36 PM			0:34+


SKC Real Time Monitor
File
Tools
Serial Number 36446
Dec 27, 2010
12:39 PM
Temperatures (F)
Min
Max
TWA
Ambient
41.0
69.0
46.9
34.2
Pressure (in-Hg)
27.49
27.90
27.67
28.00
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
5427.97
Run Time
1d
Total Time
116d 17:54:00
Battery
Flow Calibrate
Approx Correction
+10.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
5
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20041

Station Location: T-14 (City Lot R\R)
Field Technician: [illegible]
Pump Type/Model: SKC AirChek 2000
Pump Number: 36446 A
Sampling Period: 41

Sample ID #:
Filter Lot #: 20526-02
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-19-10
Time: 0940

Timer Beginning Date/Time: 12-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-27-10
Time: 1018

Timer Ending Date/Time: 12-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.62
Temperature inside station unit (°F): 31.8 / 3380X

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20041

Station Location: T-14 (City Lot R\R) Sample ID #:

Field Technician: [illegible] Filter Lot #: 20526-02

Pump Type/Model: SKC AirChek 2000

Pump Number: 36446 A

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-20-10 ([illegible])

Time: 1748 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-21-10 ([illegible])

Time: 1340 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 4521

Cumulative Sample Time (min): 2260

Atmospheric Pressure (INS) 27.47

Temperature inside station unit (°F): 54.2/40 BOX

Battery voltage reading (volts): 12.75

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-22-10 ([illegible])

Time: 1350 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

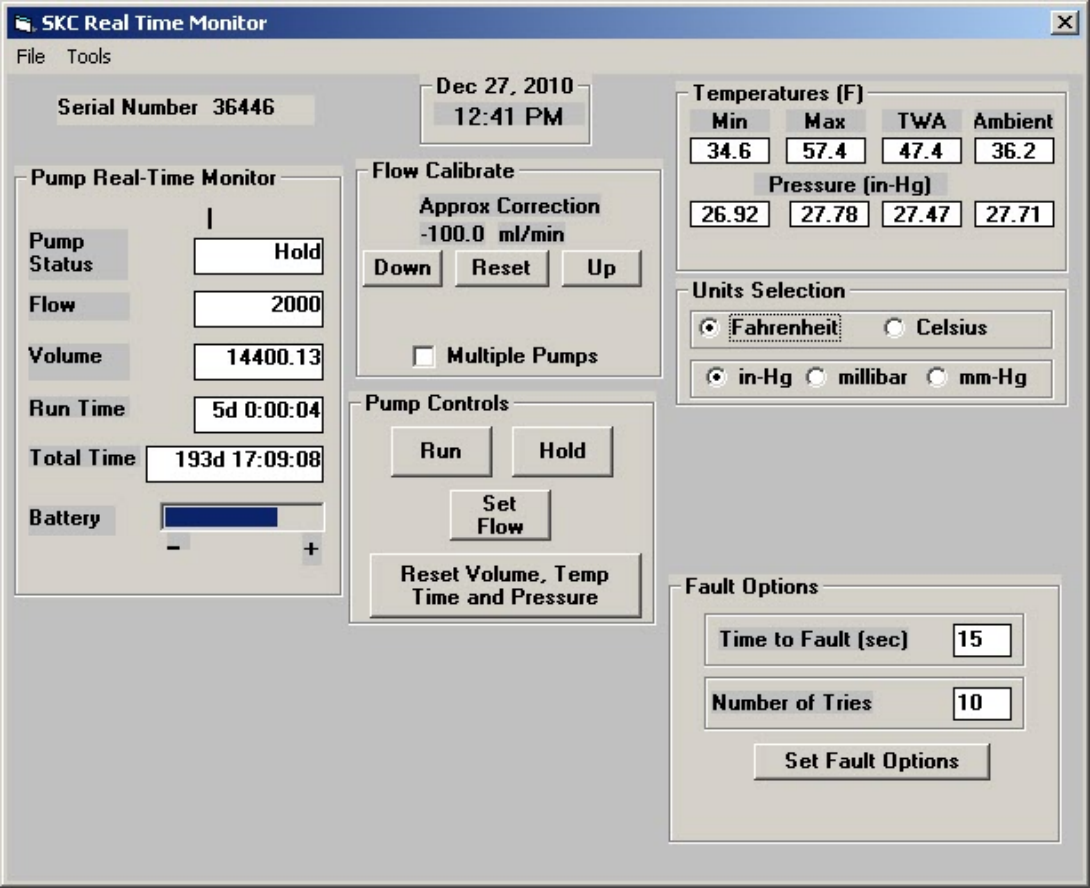
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36446
Date Printed: Monday, December 27, 2010 12:41 PM
Min Temp 34.6F
Max Temp 57.4F
TWA Temp 47.4F
Min Pressure 26.9 In-Hg
Max Pressure 27.8 In-Hg
TWA Pressure 27.5 In-Hg
Flow Correction Approximately -100.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Sun Dec 19 2010 11:10 AM			5:32
Sleep		Sun Dec 19 2010 11:16 AM			12:43:33
Prog (Run)	2000	Mon Dec 20 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Dec 25 2010 12:00 AM			4:59
Sleep		Sat Dec 25 2010 12:05 AM			1d 23:55:00
Hold		Mon Dec 27 2010 12:00 AM			4:57
Sleep		Mon Dec 27 2010 12:04 AM			10:13:31
Hold		Mon Dec 27 2010 10:18 AM			5:15
Sleep		Mon Dec 27 2010 10:23 AM			2:08:39
Hold		Mon Dec 27 2010 12:32 PM			8:37+


SKC Real Time Monitor
File
Tools
Serial Number 36446
Dec 27, 2010
12:41 PM
Temperatures (F)
Min
Max
TWA
Ambient
34.6
57.4
47.4
36.2
Pressure (in-Hg)
26.92
27.78
27.47
27.71
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
193d 17:09:08
Battery
Flow Calibrate
Approx Correction
-100.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20042**

Station Location: **T-15 (Ranch Motel)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**
Sampling Period: 41

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-19-10
Time: 0941

Timer Beginning Date/Time: 12-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-27-10
Time: 1007

Timer Ending Date/Time: 12-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.98
Temperature inside station unit (°F): 31 /30 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20042

Station Location: **T-15 (Ranch Motel)** Sample ID #:

Field Technician: [illegible]

Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36427**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-20-10 ([illegible])

Time: 1740 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-21-10 ([illegible])

Time: 13 34 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 4508

Cumulative Sample Time (min): 2254

Atmospheric Pressure (INS) 27.77

Temperature inside station unit (°F): 46.8 / 38 BOX

Battery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-22-10 ([illegible])

Time: 1355 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

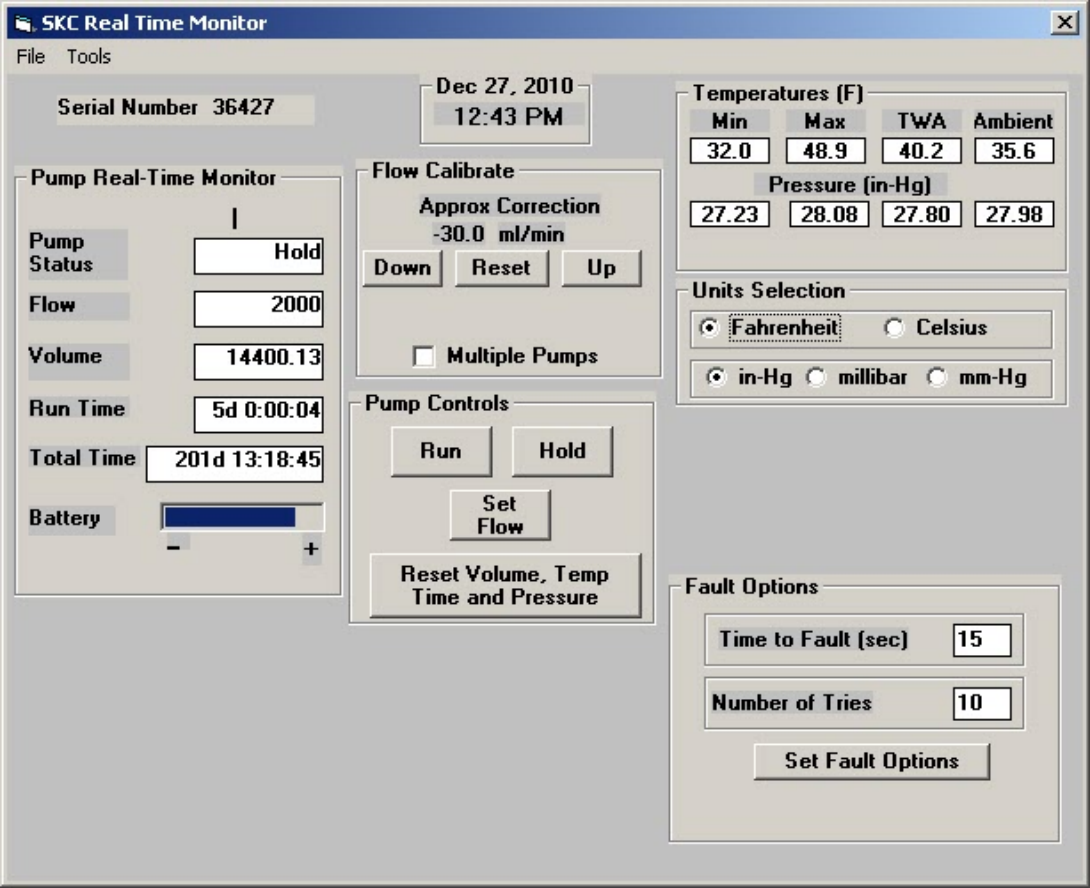
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36427
Date Printed: Monday, December 27, 2010 12:43 PM
Min Temp 32.0F
Max Temp 48.9F
TWA Temp 40.2F
Min Pressure 27.2 In-Hg
Max Pressure 28.1 In-Hg
TWA Pressure 27.8 In-Hg
Flow Correction Approximately -30.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Sun Dec 19 2010 11:15 AM			5:03
Sleep		Sun Dec 19 2010 11:20 AM			12:39:58
Prog (Run)	2000	Mon Dec 20 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Sat Dec 25 2010 12:00 AM			4:59
Sleep		Sat Dec 25 2010 12:05 AM			1d 23:54:59
Hold		Mon Dec 27 2010 12:00 AM			4:58
Sleep		Mon Dec 27 2010 12:04 AM			10:02:23
Hold		Mon Dec 27 2010 10:07 AM			5:20
Sleep		Mon Dec 27 2010 10:12 AM			2:29:01
Hold		Mon Dec 27 2010 12:41 PM			1:18+


SKC Real Time Monitor
File
Tools
Serial Number 36427
Dec 27, 2010
12:43 PM
Temperatures (F)
Min
Max
TWA
Ambient
32.0
48.9
40.2
35.6
Pressure (in-Hg)
27.23
28.08
27.80
27.98
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
201d 13:18:45
Battery
Flow Calibrate
Approx Correction
-30.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20043**

Station Location: T-15QC(RanchMotel) Sample ID #:

Field Technician: [illegible] Filter Lot #: 20526-02

Pump Type/Model: SKC AirChek 2000 Sample Type: TEM

Pump Number: 36444 Sample Parent ID #: **TA-20042**

Sampling Period: 41

PUMP SETUP DAY

Date: 12-19-10 Timer Beginning Date/Time: 12-20-10/2400

Time: 0942 Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-27-10 Timer Ending Date/Time: 12-25-10/2400

Time: 1010 Ending Flow Rate (L/min): 2

Total Sample Volume (L): OFLO

Total Sample Time (min): 7200

Atmospheric Pressure (INS) 27.66

Temperature inside station unit (°F): 33.9 /30BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20043

Station Location: **T-15QC(RanchMotel)** Sample ID #:

Field Technician: CH Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36444**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-20-10 (BB)

Time: 1742 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-21-10 (BB)

Time: 1336 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 4512

Cumulative Sample Time (min): 2256

Atmospheric Pressure (INS) 27.33

Temperature inside station unit (°F): 67.4

Battery voltage reading (volts): 12.57

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-22-10 (BB)

Time: 1356 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

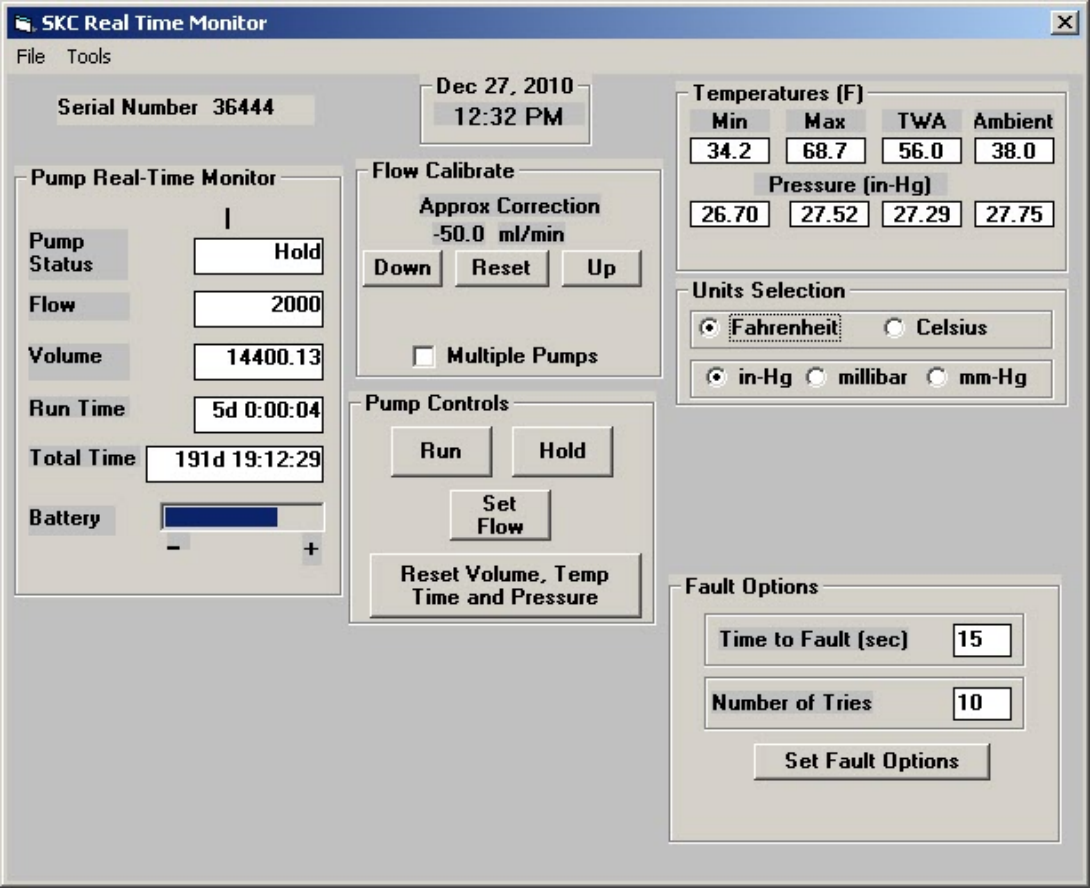
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36444
Date Printed: Monday, December 27, 2010 12:31 PM
Min Temp 34.2F
Max Temp 68.7F
TWA Temp 56.0F
Min Pressure 26.7 In-Hg
Max Pressure 27.5 In-Hg
TWA Pressure 27.3 In-Hg
Flow Correction Approximately -50.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Sun Dec 19 2010 11:03 AM			5:02
Sleep		Sun Dec 19 2010 11:08 AM			12:51:29
Prog (Run)	2000	Mon Dec 20 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Dec 25 2010 12:00 AM			4:59
Sleep		Sat Dec 25 2010 12:05 AM			1d 23:54:59
Hold		Mon Dec 27 2010 12:00 AM			4:58
Sleep		Mon Dec 27 2010 12:04 AM			10:05:14
Hold		Mon Dec 27 2010 10:10 AM			6:11
Sleep		Mon Dec 27 2010 10:16 AM			2:10:32
Hold		Mon Dec 27 2010 12:26 PM			4:05+


SKC Real Time Monitor
File
Tools
Serial Number 36444
Dec 27, 2010
12:32 PM
Temperatures (F)
Min
Max
TWA
Ambient
34.2
68.7
56.0
38.0
Pressure (in-Hg)
26.70
27.52
27.29
27.75
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
191d 19:12:29
Battery
Flow Calibrate
Approx Correction
-50.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20044**

Station Location: **T-16 (J. Erickson)**
Field Technician: JJ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**
Sampling Period: 41

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-19-10
Time: 0946

Timer Beginning Date/Time: 12-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-27-10
Time: 0955

Timer Ending Date/Time: 12-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0 FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.19
Temperature inside station unit (°F): 27.7 /33 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

12-21-10 heater battery 8.6 V heater not working

SIGNATURE: [signature] DATE: 12-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20044

Station Location: T-16 (J. Erickson) Sample ID #:

Field Technician: [illegible]

Pump Type/Model: SKC AirChek 2000 Filter Lot #: 20526-02

Pump Number: 36422

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-20-10 ( )

Time: 1722 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-21-10 ( )

Time: 1523 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 4487

Cumulative Sample Time (min): 2243

Atmospheric Pressure (INS) 27.03

Temperature inside station unit (°F): 37.7 / 36 BOX

Battery voltage reading (volts): 12.67

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-22-10 ( )

Time: 1401 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

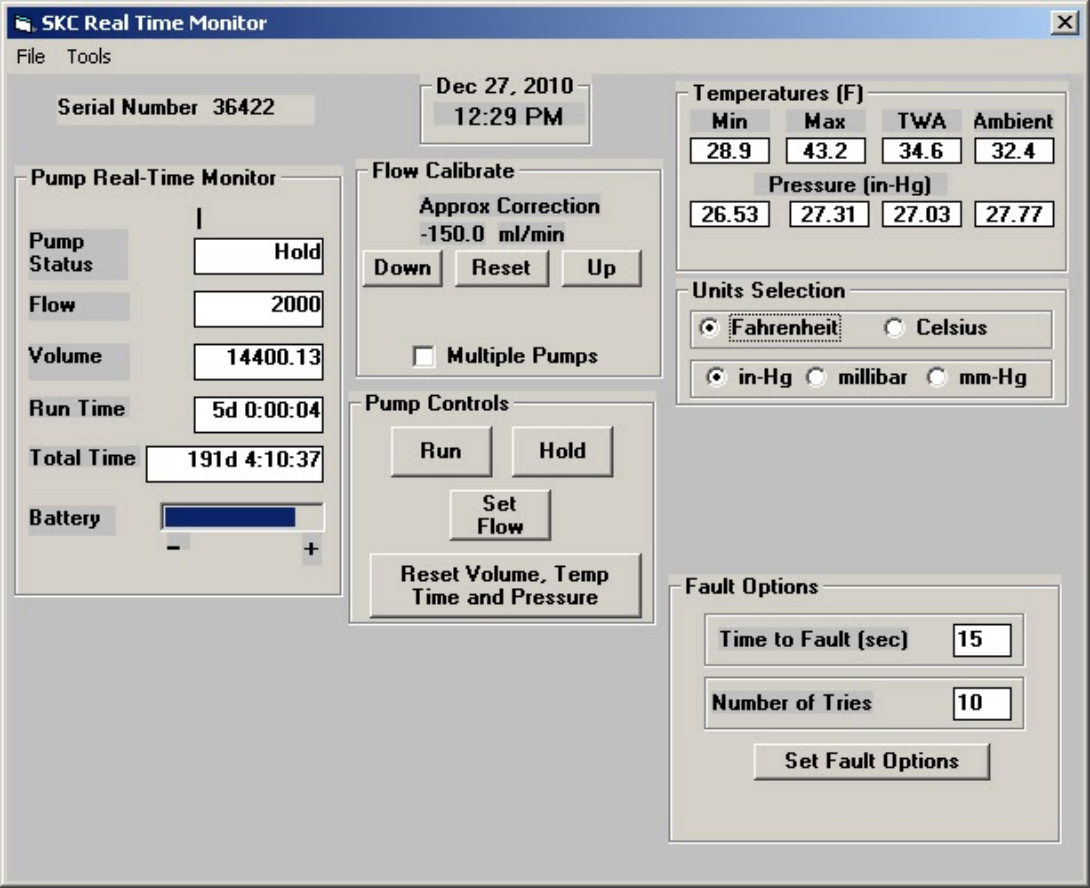
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36422
Date Printed: Monday, December 27, 2010 12:29 PM
Min Temp 28.9F
Max Temp 43.2F
TWA Temp 34.6F
Min Pressure 26.5 In-Hg
Max Pressure 27.3 In-Hg
TWA Pressure 27.0 In-Hg
Flow Correction Approximately -150.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Sun Dec 19 2010 11:14 AM			5:30
Sleep		Sun Dec 19 2010 11:19 AM			12:40:26
Prog (Run)	2000	Mon Dec 20 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Sat Dec 25 2010 12:00 AM			4:59
Sleep		Sat Dec 25 2010 12:05 AM			1d 23:54:59
Hold		Mon Dec 27 2010 12:00 AM			4:58
Sleep		Mon Dec 27 2010 12:04 AM			9:49:57
Hold		Mon Dec 27 2010 9:54 AM			5:22
Sleep		Mon Dec 27 2010 10:00 AM			2:25:50
Hold		Mon Dec 27 2010 12:26 PM			2:53+


SKC Real Time Monitor
File
Tools
Serial Number 36422
Dec 27, 2010
12:29 PM
Temperatures (F)
Min
Max
TWA
Ambient
28.9
43.2
34.6
32.4
Pressure (in-Hg)
26.53
27.31
27.03
27.77
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
191d 4:10:37
Battery
Flow Calibrate
Approx Correction
-150.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20045

Station Location: **T-17 (County Dump)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**
Sampling Period: 4 1

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-19-10
Time: 0947

Timer Beginning Date/Time: 12-20-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 12-27-10
Time: 0942

Timer Ending Date/Time: 12-25-10/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmosperic Pressure (INS) 27.64
Temperature inside station unit (°F): 30.9 /30 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 12-27-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20045

Station Location: **T-17 (County Dump)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**

Sample ID #:
Filter Lot #: **20526-02**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-20-10 ( )
Time: 1700 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-21-10 ( )
Time: 1311 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 4462
Cumulative Sample Time (min): 2230
Atmospheric Pressure (INS) 27.47
Temperature inside station unit (°F): 53.4 / 3460X
Battery voltage reading (volts): 12.68

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-22-10 ( )
Time: 1233 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

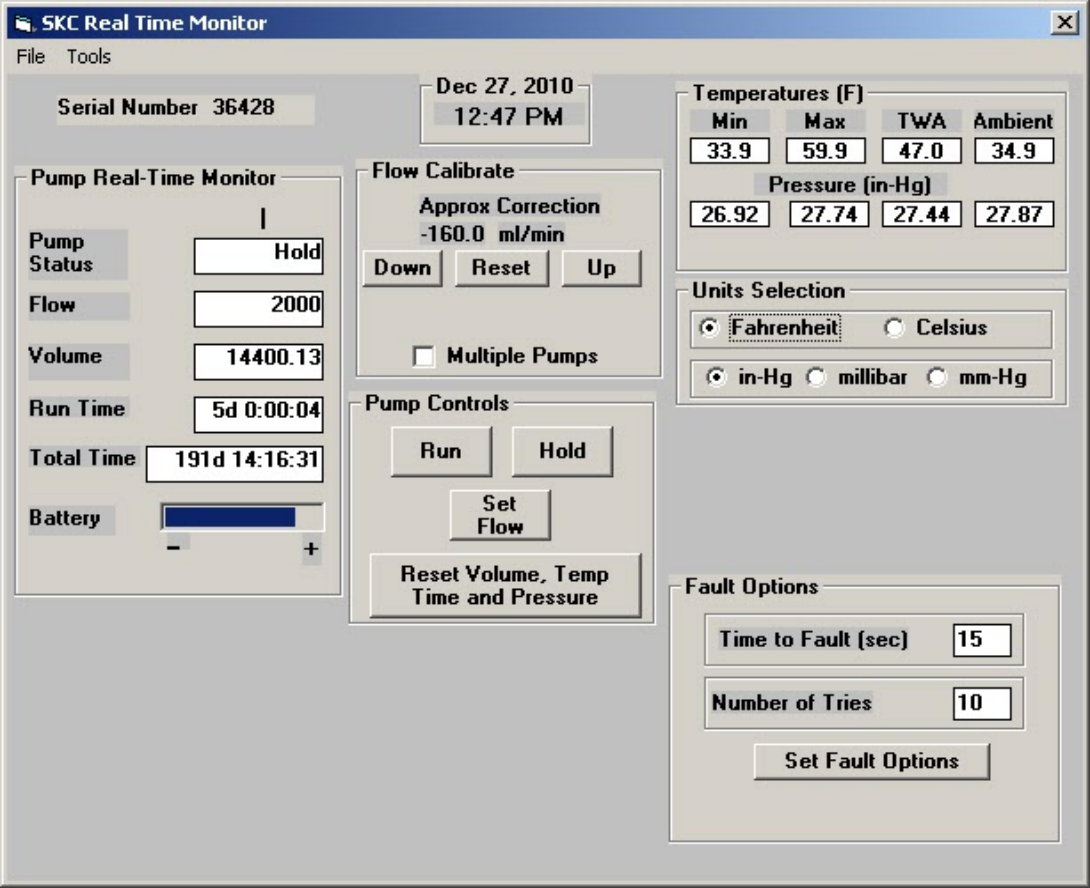
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36428
Date Printed: Monday, December 27, 2010 12:47 PM
Min Temp 33.9F
Max Temp 59.9F
TWA Temp 47.0F
Min Pressure 26.9 In-Hg
Max Pressure 27.7 In-Hg
TWA Pressure 27.4 In-Hg
Flow Correction Approximately -160.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Sun Dec 19 2010 11:12 AM			6:11
Sleep		Sun Dec 19 2010 11:18 AM			12:41:20
Prog (Run)	2000	Mon Dec 20 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Sat Dec 25 2010 12:00 AM			4:59
Sleep		Sat Dec 25 2010 12:05 AM			1d 23:54:59
Hold		Mon Dec 27 2010 12:00 AM			4:58
Sleep		Mon Dec 27 2010 12:04 AM			9:36:50
Hold		Mon Dec 27 2010 9:41 AM			5:19
Sleep		Mon Dec 27 2010 9:47 AM			2:57:20
Hold		Mon Dec 27 2010 12:44 PM			2:33+


SKC Real Time Monitor
File
Tools
Serial Number 36428
Dec 27, 2010
12:47 PM
Temperatures (F)
Min
Max
TWA
Ambient
33.9
59.9
47.0
34.9
Pressure (in-Hg)
26.92
27.74
27.44
27.87
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
191d 14:16:31
Battery
Flow Calibrate
Approx Correction
-160.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20047

Station Location: **Field Blank** | Sample ID #: —

Field Technician: [illegible] | Filter Lot #: **20526-02**

Pump Type/Model: — | Sample Type: **TEM**

Pump Number: — | Sample Parent ID #: —

Sampling Period 42

PUMP SETUP DAY

Date: 12-29-10

Time: 1143

Timer Beginning Date/Time: 12-30-10/2400

Beginning Flow Rate (L/min): —

Pump Programmed (Yes / No): —

Bios Calibration Within 10 mL (Yes / No) —

PUMP RETRIEVAL DAY

Date: —

Time: —

Timer Ending Date/Time: —

Ending Flow Rate (L/min): —

Total Sample Volume (L): —

Total Sample Time (min): —

Atmospheric Pressure (INS) —

Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 12-29-10

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20048

Station Location: **T-11 (P.Epps)**
Field Technician: [signature]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**
Sampling Peiod: 42

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-29-10
Time: 1145

Timer Beginning Date/Time: 12-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-4-11
Time: 1131

Timer Ending Date/Time: 1-4-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.08
Temperature inside station unit (°F): 28.6 / 24 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 1-4-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20048

Station Location: T-11 (P.Epps)
Sample ID #:
Field Technician: [initials]
Filter Lot #: 20526-02
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-30-10 (gg)
Time: 0935 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1151
Cumulative Sample Time (min): 575
Atmospheric pressure (mm Hg): 27.26
Temperature inside station unit (°F): 39.0 / 28 Box
Battery voltage reading (volts): 12.80

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( ) gg

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

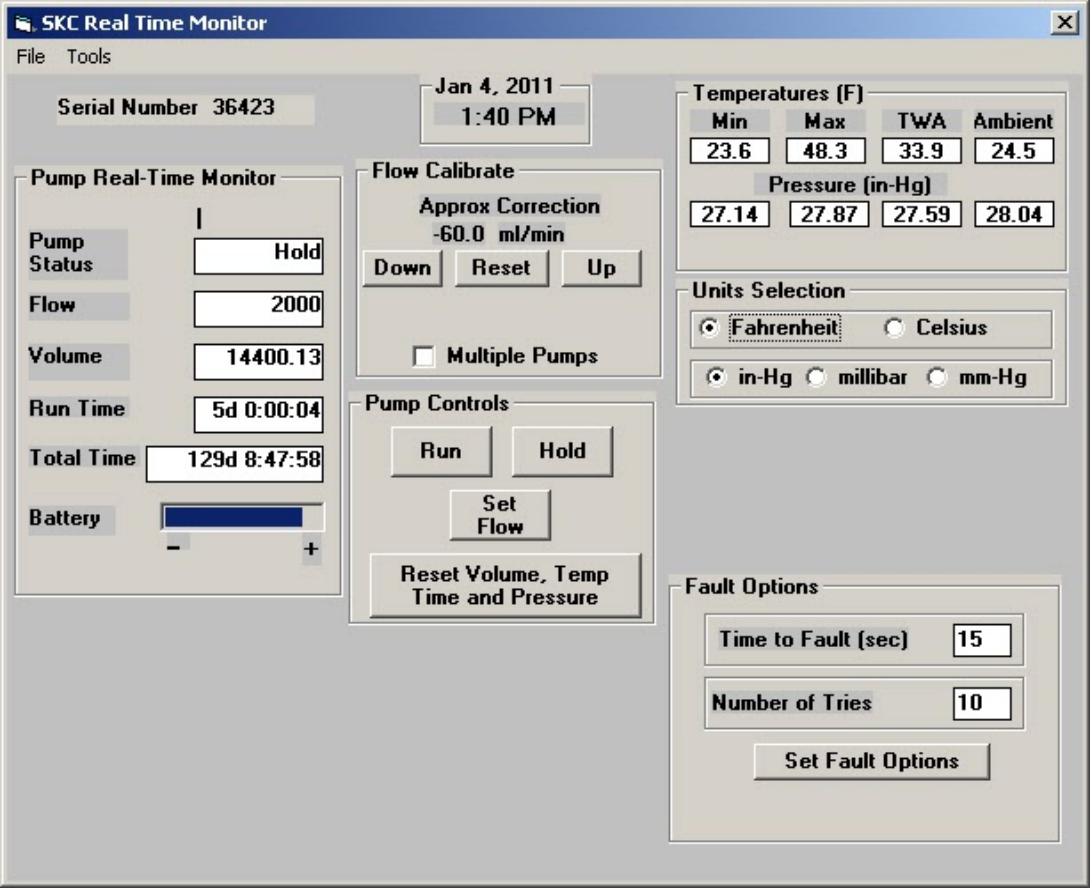
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36423
Date Printed: Tuesday, January 4, 2011 1:40 PM
Min Temp 23.6F
Max Temp 48.3F
TWA Temp 33.9F
Min Pressure 27.1 In-Hg
Max Pressure 27.9 In-Hg
TWA Pressure 27.6 In-Hg
Flow Correction Approximately -60.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Wed Dec 29 2010 12:15 PM			7:14
Sleep		Wed Dec 29 2010 12:22 PM			11:37:32
Prog (Run)	2000	Thu Dec 30 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Jan 4 2011 12:00 AM			4:59
Sleep		Tue Jan 4 2011 12:05 AM			11:26:48
Hold		Tue Jan 4 2011 11:31 AM			5:07
Sleep		Tue Jan 4 2011 11:36 AM			2:00:50
Hold		Tue Jan 4 2011 1:37 PM			2:14+


SKC Real Time Monitor
File
Tools
Serial Number 36423
Jan 4, 2011
1:40 PM
Temperatures (F)
Min
Max
TWA
Ambient
23.6
48.3
33.9
24.5
Pressure (in-Hg)
27.14
27.87
27.59
28.04
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
129d 8:47:58
Battery
Flow Calibrate
Approx Correction
-60.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20049

Station Location: **T-12 (Fire Station)**
Field Technician: JD
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**
Sampling Period: 42

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-29-10
Time: 1146

Timer Beginning Date/Time: 12-30-10 / 2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-4-11
Time: 1141

Timer Ending Date/Time: 1-4-11 / 2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.30
Temperature inside station unit (°F): 32.7 / 26 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 1-4-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20049

Station Location: **T-12 (Fire Station)**

Sample ID #:

Field Technician: [signature]

Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36424**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-30-10 ([initials])

Time: 0942 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1163

Cumulative Sample Time (min): 581

Atmospheric Pressure (INS) 27.89

Temperature inside station unit (°F): 43.1 / 30 BOX

Battery voltage reading (volts): 12.81

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ______ ( )

Time: ______ ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ______ ( )

Time: ______ ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ______ ( )

Time: ______ ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ______ ( )

Time: ______ ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

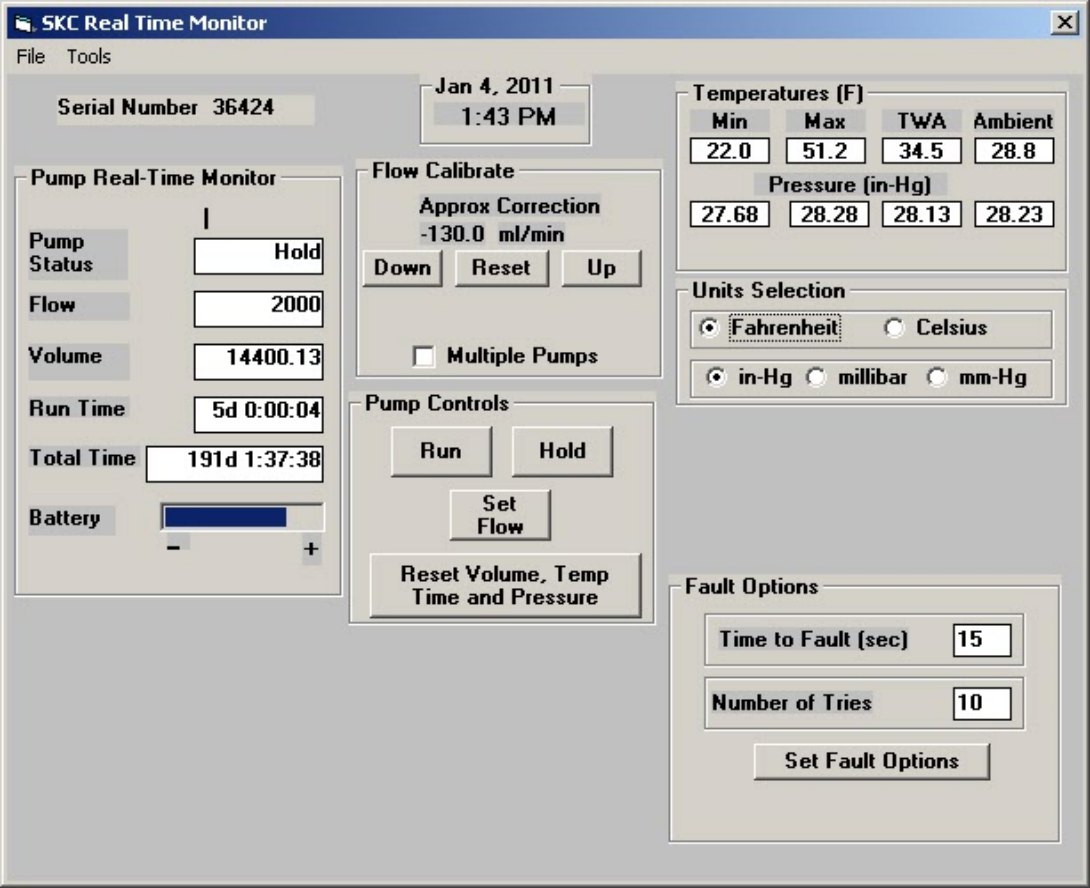
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36424
Date Printed: Tuesday, January 4, 2011 1:42 PM
Min Temp 22.0F
Max Temp 51.2F
TWA Temp 34.5F
Min Pressure 27.7 In-Hg
Max Pressure 28.3 In-Hg
TWA Pressure 28.1 In-Hg
Flow Correction Approximately -130.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Wed Dec 29 2010 12:35 PM			5:32
Sleep		Wed Dec 29 2010 12:40 PM			11:19:25
Prog (Run)	2000	Thu Dec 30 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Jan 4 2011 12:00 AM			4:59
Sleep		Tue Jan 4 2011 12:05 AM			11:36:02
Hold		Tue Jan 4 2011 11:41 AM			5:26
Sleep		Tue Jan 4 2011 11:46 AM			1:51:39
Hold		Tue Jan 4 2011 1:38 PM			3:52+


SKC Real Time Monitor
File
Tools
Serial Number 36424
Jan 4, 2011
1:43 PM
Temperatures (F)
Min
Max
TWA
Ambient
22.0
51.2
34.5
28.8
Pressure (in-Hg)
27.68
28.28
28.13
28.23
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
191d 1:37:38
Battery
Flow Calibrate
Approx Correction
-130.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20050**

Station Location: **T-13 (Forest Service)**
Field Technician: JD
Pump Type/Model: **SKC AirChek 2000**
Pump Number: ~~36446-B~~ 36484
Sampling Period: 42

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-29-10
Time: 1147

Timer Beginning Date/Time: 12-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-4-11
Time: 1152

Timer Ending Date/Time: 1-4-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 9200
Atmospheric Pressure (INS) 27.99
Temperature inside station unit (°F): 29.4 / 26 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: Jay Jordan DATE: 1-4-11

TA-20050

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

Station Location: **T-13 (Forest Service)**
Sample ID #:
Field Technician: [illegible]
Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: ~~36448-B~~ 36484

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-30-10 ([illegible])
Time: 0930 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1140
Cumulative Sample Time (min): 570
Atmospheric Pressure (INS) 27.50
Temperature inside station unit (°F): 38.7 / [illegible]
Battery voltage reading (volts): 12.81

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

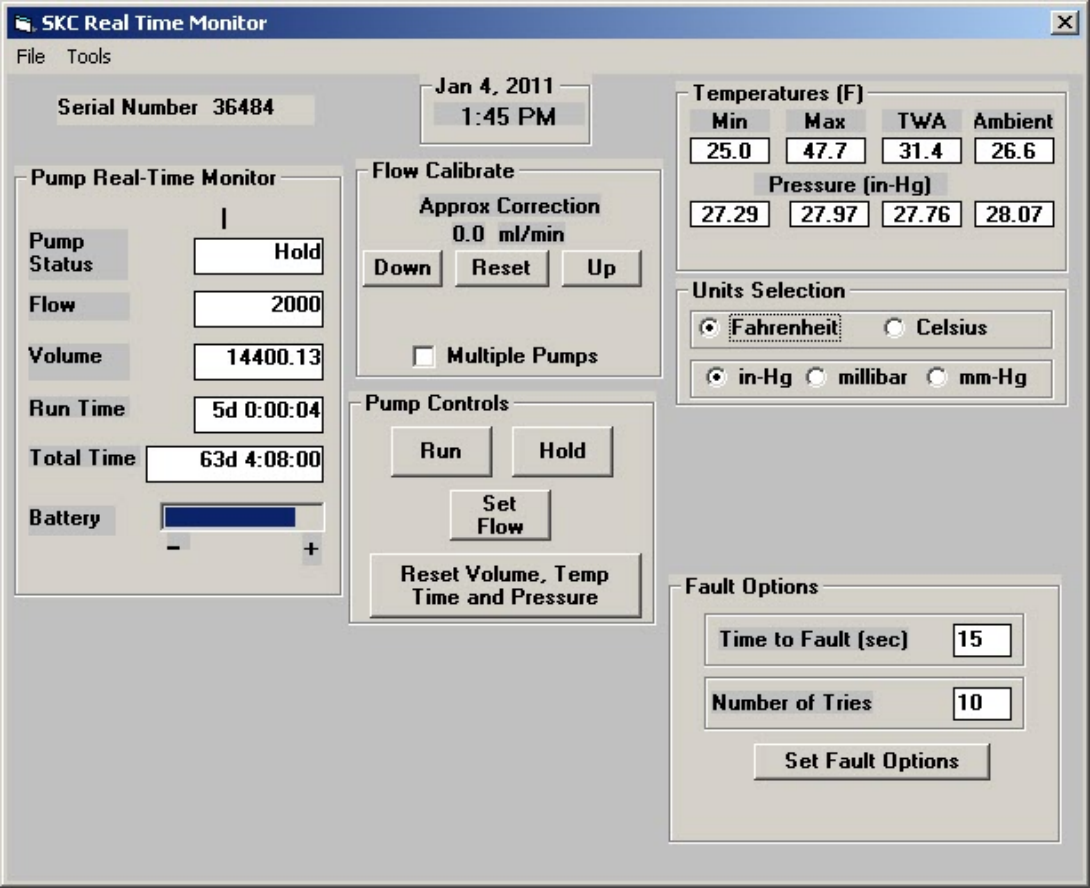
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36484
Date Printed: Tuesday, January 4, 2011 1:45 PM
Min Temp 25.0F
Max Temp 47.7F
TWA Temp 31.4F
Min Pressure 27.3 In-Hg
Max Pressure 28.0 In-Hg
TWA Pressure 27.8 In-Hg
No Flow Correction

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Wed Dec 29 2010 12:06 PM			9:34
Sleep		Wed Dec 29 2010 12:15 PM			11:44:18
Prog (Run)	2000	Thu Dec 30 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Jan 4 2011 12:00 AM			4:59
Sleep		Tue Jan 4 2011 12:05 AM			11:46:54
Hold		Tue Jan 4 2011 11:51 AM			5:28
Sleep		Tue Jan 4 2011 11:57 AM			1:44:15
Hold		Tue Jan 4 2011 1:41 PM			3:22+


SKC Real Time Monitor
File
Tools
Serial Number 36484
Jan 4, 2011
1:45 PM
Temperatures (F)
Min
Max
TWA
Ambient
25.0
47.7
31.4
26.6
Pressure (in-Hg)
27.29
27.97
27.76
28.07
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
63d 4:08:00
Battery
Flow Calibrate
Approx Correction
0.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20051

Station Location: **T-14 (City Lot R\R)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36446 A**
Sampling Period: 42

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-29-10
Time: 1148

Timer Beginning Date/Time: 12-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-4-11
Time: 1203

Timer Ending Date/Time: 1-4-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.89
Temperature inside station unit (°F): 33.2/25 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 1-4-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20051

Station Location: **T-14 (City Lot R\R)**

Sample ID #:

Field Technician: [illegible]

Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36446 A**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-30-10 ([illegible])

Time: 0920 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1119

Cumulative Sample Time (min): 559

Atmospheric Pressure (INS) 27.34

Temperature inside station unit (°F): 43.9 / 30 Box

Battery voltage reading (volts): 12.85

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

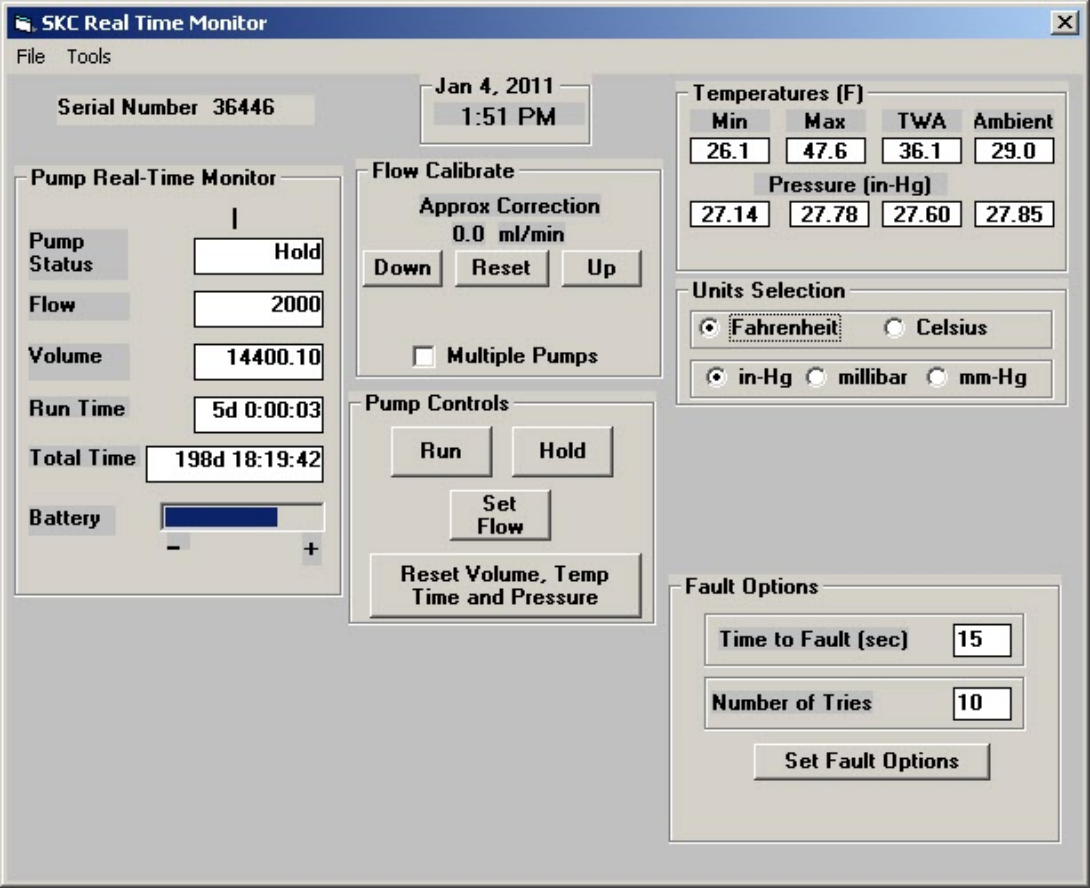
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

Min Pressure 27.1 In-Hg
Max Pressure 27.8 In-Hg
TWA Pressure 27.6 In-Hg
No Flow Correction

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Wed Dec 29 2010 12:35 PM			5:07
Sleep		Wed Dec 29 2010 12:40 PM			11:19:28
Prog (Run)	2000	Thu Dec 30 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Tue Jan 4 2011 12:00 AM			4:59
Sleep		Tue Jan 4 2011 12:05 AM			11:58:14
Hold		Tue Jan 4 2011 12:03 PM			5:35
Sleep		Tue Jan 4 2011 12:08 PM			1:36:18
Hold		Tue Jan 4 2011 1:45 PM			5:53+


SKC Real Time Monitor
File
Tools
Serial Number 36446
Jan 4, 2011
1:51 PM
Temperatures (F)
Min
Max
TWA
Ambient
26.1
47.6
36.1
29.0
Pressure (in-Hg)
27.14
27.78
27.60
27.85
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.10
Run Time
5d 0:00:03
Total Time
198d 18:19:42
Battery
Flow Calibrate
Approx Correction
0.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20052

Station Location: **T-15 (Ranch Motel)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**
Sampling Period: 42

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-29-10
Time: 1149

Timer Beginning Date/Time: 12-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-4-11
Time: 1211

Timer Ending Date/Time: 1-4-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.15
Temperature inside station unit (°F): 30.7 /24 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 1 - 4 - 11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20052

Station Location: T-15 (Ranch Motel) Sample ID #:

Field Technician: [initials] Filter Lot #: 20526-02

Pump Type/Model: SKC AirChek 2000

Pump Number: 36427

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-30-10 (GG)

Time: 0915 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1109

Cumulative Sample Time (min): 554

Atmospheric Pressure (INS) 27.70

Temperature inside station unit (°F): 39.5 / 29 Box

Battery voltage reading (volts): 12.85

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

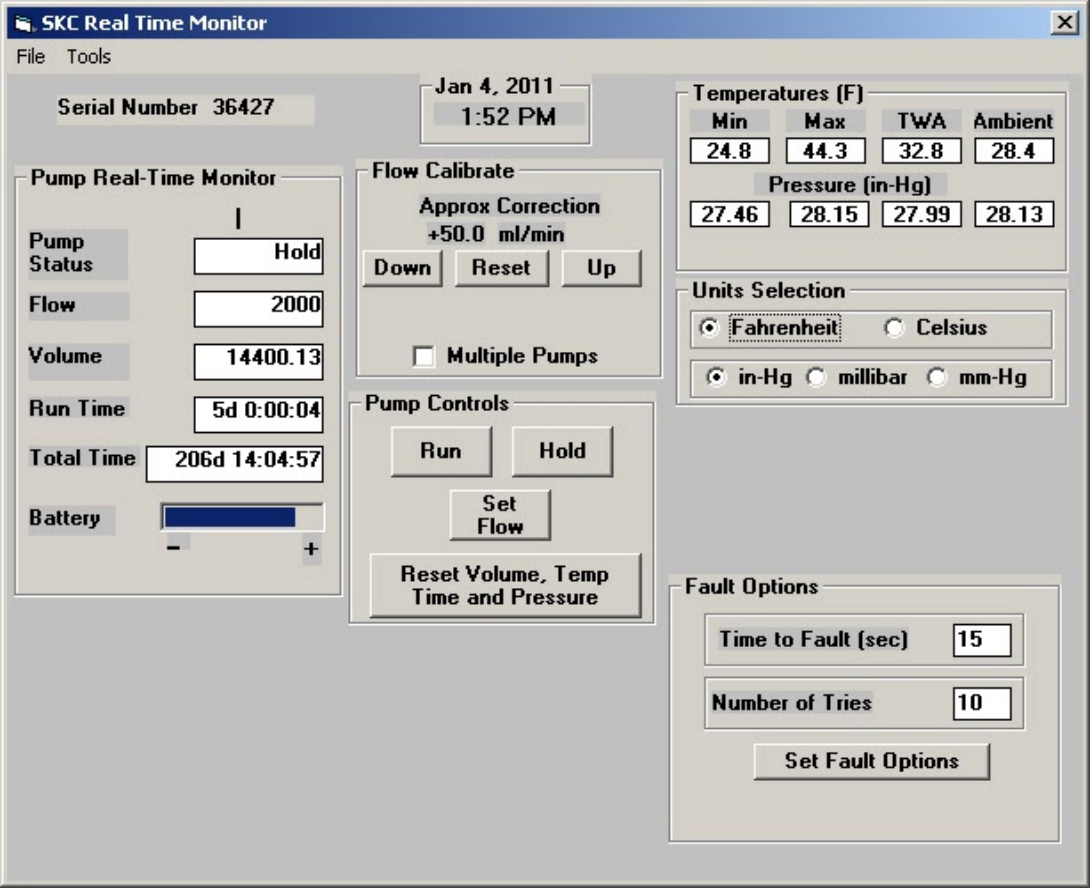
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36427
Date Printed: Tuesday, January 4, 2011 1:53 PM
Min Temp 24.8F
Max Temp 44.3F
TWA Temp 32.8F
Min Pressure 27.5 In-Hg
Max Pressure 28.2 In-Hg
TWA Pressure 28.0 In-Hg
Flow Correction Approximately +50.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Wed Dec 29 2010 12:11 PM			7:48
Sleep		Wed Dec 29 2010 12:18 PM			11:41:02
Prog (Run)	2000	Thu Dec 30 2010 12:00 AM	14400	14400	5d 0:00:01
Hold		Tue Jan 4 2011 12:00 AM			4:59
Sleep		Tue Jan 4 2011 12:05 AM			12:06:29
Hold		Tue Jan 4 2011 12:11 PM			5:27
Sleep		Tue Jan 4 2011 12:16 PM			1:32:13
Hold		Tue Jan 4 2011 1:49 PM			3:50+


SKC Real Time Monitor
File
Tools
Serial Number 36427
Jan 4, 2011
1:52 PM
Temperatures (F)
Min
Max
TWA
Ambient
24.8
44.3
32.8
28.4
Pressure (in-Hg)
27.46
28.15
27.99
28.13
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
206d 14:04:57
Battery
Flow Calibrate
Approx Correction
+50.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20053

Station Location: **T-16 (J. Erickson)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**
Sampling Period: 42

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-29-10
Time: 1150

Timer Beginning Date/Time: 12-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-4-11
Time: 1232

Timer Ending Date/Time: 1-4-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFL@
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.34
Temperature inside station unit (°F): 26.6/25 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: Jerry Jordan DATE: 1-4-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20053

Station Location: **T-16 (J. Erickson)**
Sample ID #:
Field Technician: [initials]
Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-30-10 ([initials])

Time: 0904 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1087
Cumulative Sample Time (min): 543
Atmospheric Pressure (INS) 26.97
Temperature inside station unit (°F): 37.6 / 29 Box
Battery voltage reading (volts): 12.90

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

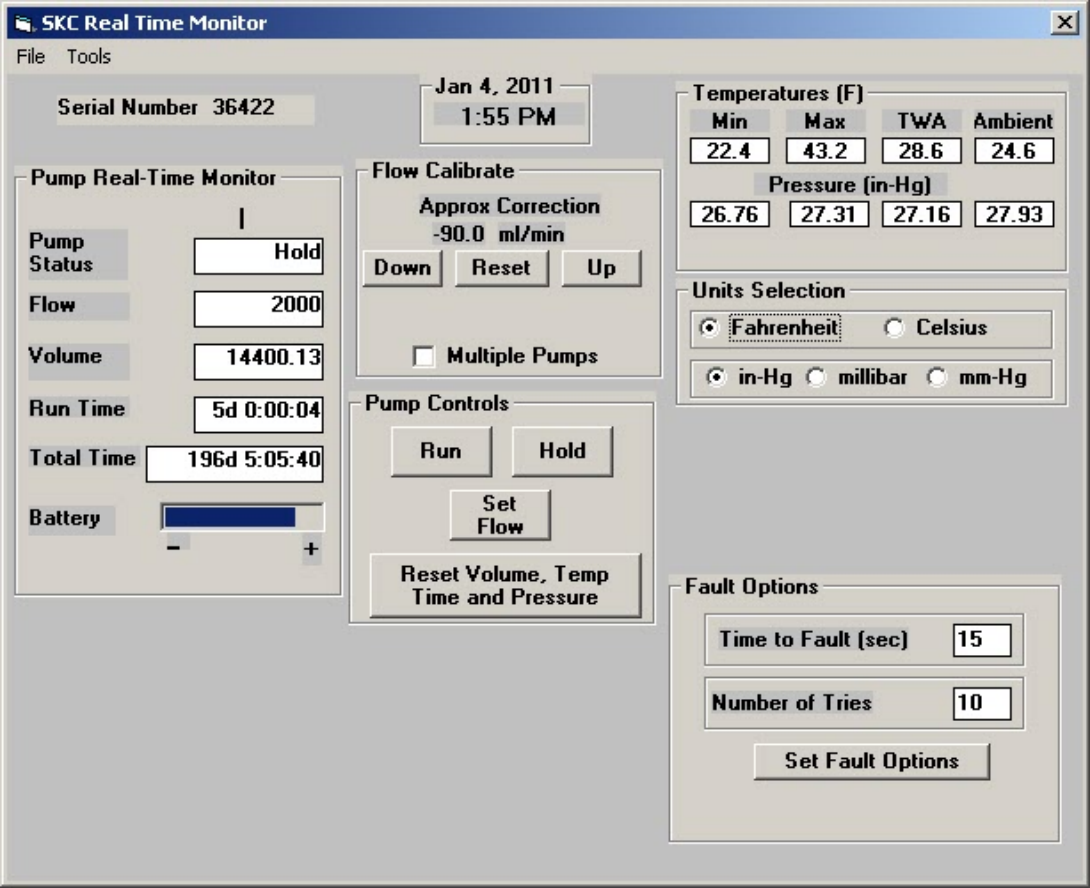
Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36422
Date Printed: Tuesday, January 4, 2011 1:55 PM
Min Temp 22.4F
Max Temp 43.2F
TWA Temp 28.6F
Min Pressure 26.8 In-Hg
Max Pressure 27.3 In-Hg
TWA Pressure 27.2 In-Hg
Flow Correction Approximately -90.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Wed Dec 29 2010 12:20 PM			8:05
Sleep		Wed Dec 29 2010 12:28 PM			11:31:33
Prog (Run)	2000	Thu Dec 30 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Jan 4 2011 12:00 AM			4:59
Sleep		Tue Jan 4 2011 12:05 AM			12:27:07
Hold		Tue Jan 4 2011 12:32 PM			5:22
Sleep		Tue Jan 4 2011 12:37 PM			1:14:32
Hold		Tue Jan 4 2011 1:52 PM			2:58+


SKC Real Time Monitor
File
Tools
Serial Number 36422
Jan 4, 2011
1:55 PM
Temperatures (F)
Min
Max
TWA
Ambient
22.4
43.2
28.6
24.6
Pressure (in-Hg)
26.76
27.31
27.16
27.93
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
196d 5:05:40
Battery
Flow Calibrate
Approx Correction
-90.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20054

Station Location: **T-16QC(J. Erickson)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36444**
Sampling Period: 42

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: **TA-20053**

PUMP SETUP DAY

Date: 12-29-10
Time: 1151

Timer Beginning Date/Time: 12-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-4-11
Time: 1235

Timer Ending Date/Time: 1-4-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.25
Temperature inside station unit (°F): 35.1 / 25 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 1-4-11

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-20054

Station Location: T-16QC(J. Erickson) Sample ID #:
Field Technician: [initials] Filter Lot #: 20526-02
Pump Type/Model: SKC AirChek 2000
Pump Number: 36444

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-30-10 ([initials])
Time: 0906 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1092
Cumulative Sample Time (min): 546
Atmospheric Pressure (INS) 26.66
Temperature inside station unit (°F): 47.5 / 29 BOX
Battery voltage reading (volts): 12.74

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

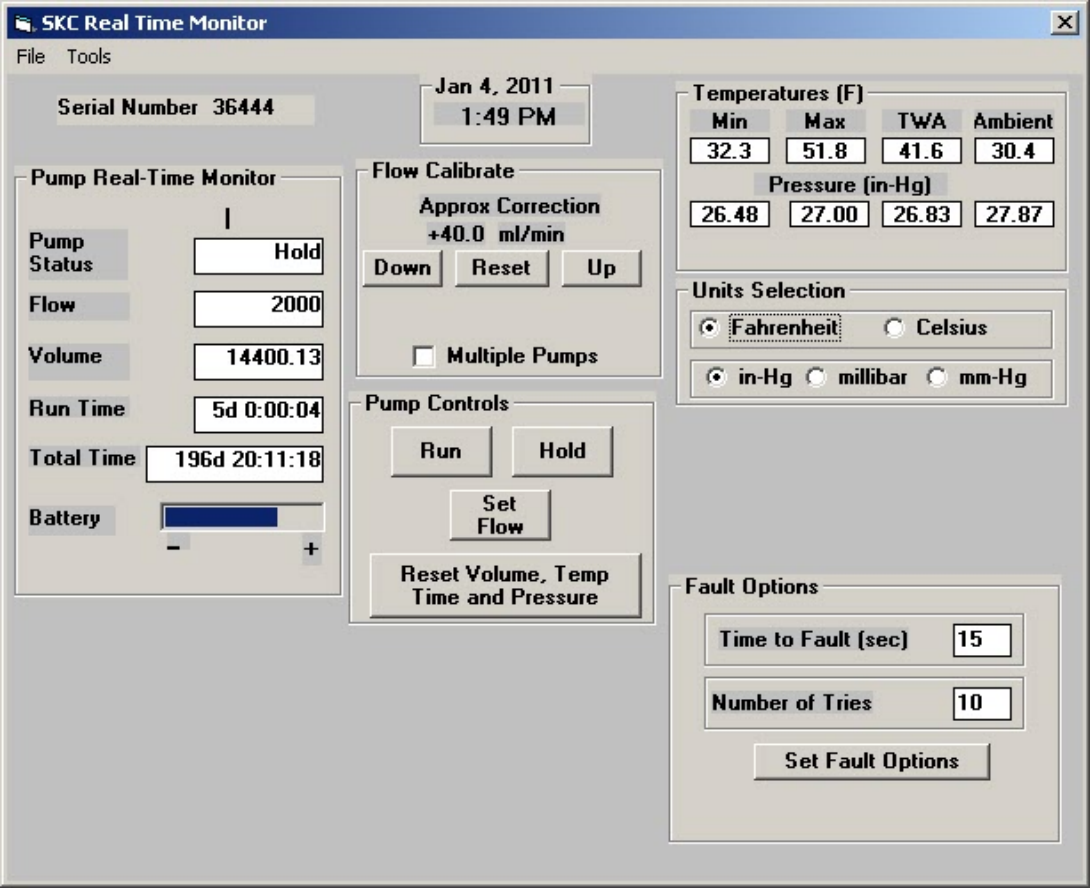
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

Min Pressure 26.5 In-Hg
Max Pressure 27.0 In-Hg
TWA Pressure 26.8 In-Hg
Flow Correction Approximately +40.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Wed Dec 29 2010 12:24 PM			9:44
Sleep		Wed Dec 29 2010 12:34 PM			11:25:20
Prog (Run)	2000	Thu Dec 30 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Jan 4 2011 12:00 AM			4:59
Sleep		Tue Jan 4 2011 12:05 AM			12:29:55
Hold		Tue Jan 4 2011 12:34 PM			5:18
Sleep		Tue Jan 4 2011 12:40 PM			1:03:47
Hold		Tue Jan 4 2011 1:44 PM			3:59+


SKC Real Time Monitor
File
Tools
Serial Number 36444
Jan 4, 2011
1:49 PM
Temperatures (F)
Min
Max
TWA
Ambient
32.3
51.8
41.6
30.4
Pressure (in-Hg)
26.48
27.00
26.83
27.87
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
196d 20:11:18
Battery
Flow Calibrate
Approx Correction
+40.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20055

Station Location: **T-17 (County Dump)**
Field Technician: JJ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**
Sampling Period: 42

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 12-29-10
Time: 1152

Timer Beginning Date/Time: 12-30-10/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-4-11
Time: 1220

Timer Ending Date/Time: 01-4-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmosperic Pressure (INS) 27.88
Temperature inside station unit (°F): 33.8 2280x

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 1-4-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20055

Station Location: T-17 (County Dump)
Sample ID #:
Field Technician: JJ
Filter Lot #: 20526-02
Pump Type/Model: SKC AirChek 2000
Pump Number: 36428

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 12-30-10 (JJ)
Time: 0851 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1068
Cumulative Sample Time (min): 534
Atmospheric Pressure (INS) 27.31
Temperature inside station unit (°F): 46.8 1600x
Battery voltage reading (volts): 12.78

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

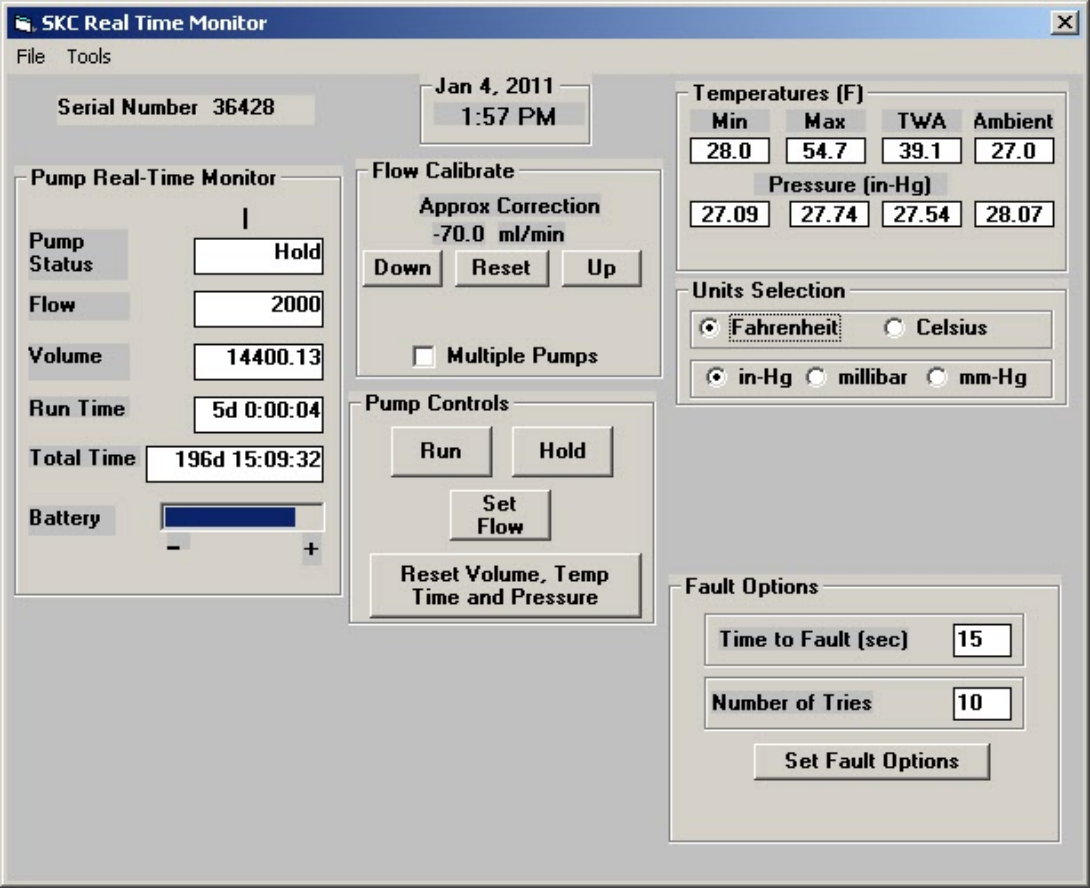
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36428
Date Printed: Tuesday, January 4, 2011 1:57 PM
Min Temp 28.0F
Max Temp 54.7F
TWA Temp 39.1F
Min Pressure 27.1 In-Hg
Max Pressure 27.7 In-Hg
TWA Pressure 27.5 In-Hg
Flow Correction Approximately -70.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Wed Dec 29 2010 12:18 PM			6:39
Sleep		Wed Dec 29 2010 12:24 PM			11:35:03
Prog (Run)	2000	Thu Dec 30 2010 12:00 AM	14400	14400	5d 0:00:02
Hold		Tue Jan 4 2011 12:00 AM			4:59
Sleep		Tue Jan 4 2011 12:05 AM			12:14:41
Hold		Tue Jan 4 2011 12:19 PM			5:22
Sleep		Tue Jan 4 2011 12:25 PM			1:28:59
Hold		Tue Jan 4 2011 1:54 PM			2:57+


SKC Real Time Monitor
File
Tools
Serial Number 36428
Jan 4, 2011
1:57 PM
Temperatures (F)
Min
Max
TWA
Ambient
28.0
54.7
39.1
27.0
Pressure (in-Hg)
27.09
27.74
27.54
28.07
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
196d 15:09:32
Battery
Flow Calibrate
Approx Correction
-70.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20056**

Station Location: **Field Blank** Sample ID #: —

Field Technician: [illegible] Filter Lot #: **20526-02**

Pump Type/Model: — Sample Type: **TEM**

Pump Number: — Sample Parent ID #: —

Sampling Period 43

PUMP SETUP DAY

Timer Beginning Date/Time: 1-11-11/2400

Date: 1-10-11 Beginning Flow Rate (L/min): ~~2~~

Time: 1546 Pump Programmed (Yes / No): ~~Yes~~

Bios Calibration Within 10 mL (Yes / No) ~~Yes~~

PUMP RETRIEVAL DAY

Timer Ending Date/Time: —

Date: — Ending Flow Rate (L/min): —

Time: — Total Sample Volume (L): —

Total Sample Time (min): —

Atmospheric Pressure (INS) —

Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 1-10-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20057**

Station Location: **T-11 (P.Epps)**
Field Technician: JP
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**
Sampling Peiod: 43

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-10-11
Time: 1551

Timer Beginning Date/Time: 1-11-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-16-11
Time: 1118

Timer Ending Date/Time: 1-16-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0F-LO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.58
Temperature inside station unit (°F): 60.2 / 40 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Rain & snow during period. JP

SIGNATURE [signature] **DATE:** 1-16-11

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-20057

Station Location: **T-11 (P.Epps)**
Sample ID #:
Field Technician: [illegible]
Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-11-11 ([illegible])
Time: 1020 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1241
Cumulative Sample Time (min): 620
Atmospheric pressure (mm Hg): 28.19
Temperature inside station unit (°F): 25.0 / 12 BOX
Battery voltage reading (volts): 12.80

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-14-11 ([illegible])
Time: 1153 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): OFLO
Cumulative Sample Time (min): 5033
Atmospheric Pressure (INS) 27.54
Temperature inside station unit (°F): 65.5 / 42 BOX
Battery voltage reading (volts): 12.48

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

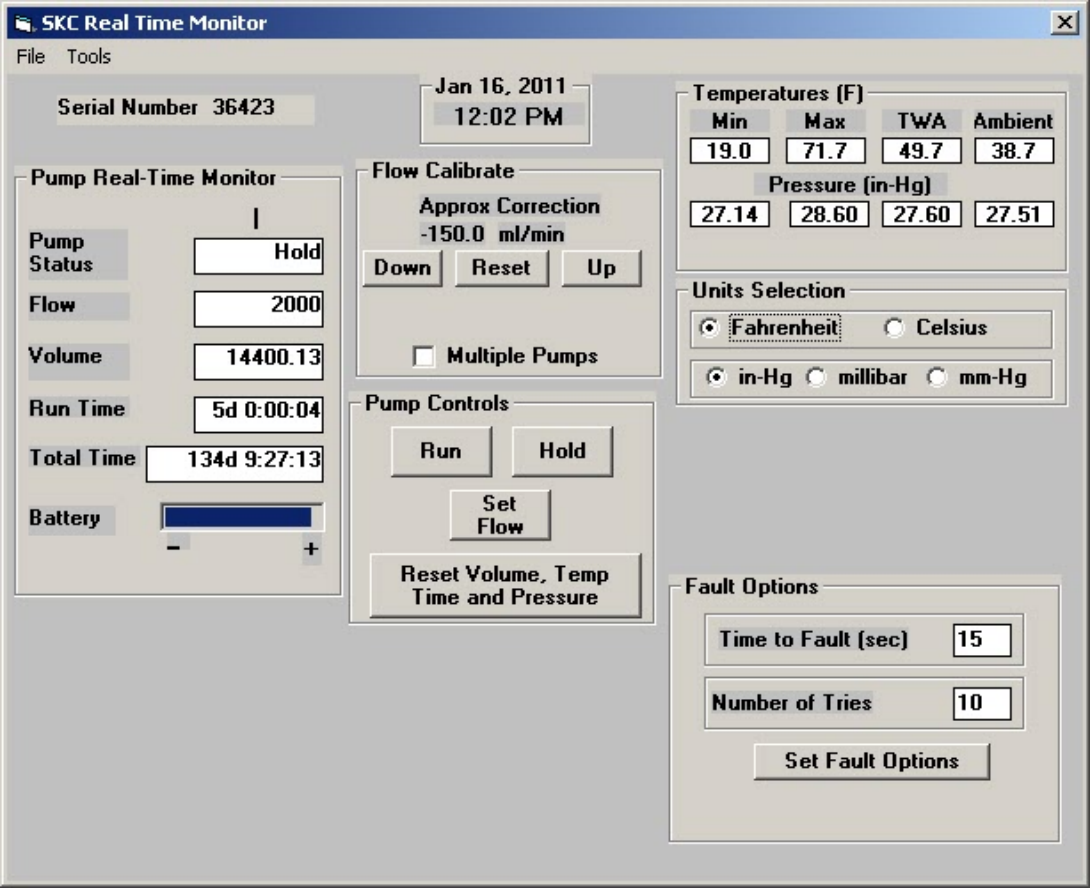
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36423
Date Printed: Sunday, January 16, 2011 12:02 PM
Min Temp 19.0F
Max Temp 71.7F
TWA Temp 49.7F
Min Pressure 27.1 In-Hg
Max Pressure 28.6 In-Hg
TWA Pressure 27.6 In-Hg
Flow Correction Approximately -150.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Hold		Mon Jan 10 2011 4:21 PM			0:38
Prog (Hold)		Mon Jan 10 2011 4:22 PM			14:06
Sleep		Mon Jan 10 2011 4:36 PM			7:23:34
Prog (Run)	2000	Tue Jan 11 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Sun Jan 16 2011 12:00 AM			4:59
Sleep		Sun Jan 16 2011 12:05 AM			11:13:32
Hold		Sun Jan 16 2011 11:18 AM			5:12
Sleep		Sun Jan 16 2011 11:23 AM			33:11
Hold		Sun Jan 16 2011 11:56 AM			5:04+


SKC Real Time Monitor
File
Tools
Serial Number 36423
Jan 16, 2011
12:02 PM
Temperatures (F)
Min
Max
TWA
Ambient
19.0
71.7
49.7
38.7
Pressure (in-Hg)
27.14
28.60
27.60
27.51
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
134d 9:27:13
Battery
Flow Calibrate
Approx Correction
-150.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20058

Station Location: **T-12 (Fire Station)**
Field Technician: **CP**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**
Sampling Period: **43**

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: **—**

PUMP SETUP DAY

Date: 1-10-11
Time: 1552

Timer Beginning Date/Time: 1-11-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-16-11
Time: 1126

Timer Ending Date/Time: 1-16-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.97
Temperature inside station unit (°F): 53.5 / 42 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Rain & snow during period gg

SIGNATURE: [signature] DATE: 1-16-11

TA-20058

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

Station Location: **T-12 (Fire Station)** Sample ID #:
Field Technician: GG Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**

DAILY CHECK (For each station visit)

		(Field Tech Initials)		
Date:	1-11-11	(GG)	PUMP FAULT (Yes / No):	NO
Time:	1027	( )	Flow Rate (L/min):	2
			Cumulative Sample Volume (L):	1254
			Cumulative Sample Time (min):	626
			Atmospheric Pressure (INS)	28.49
			Temperature inside station unit (°F):	26.9 / 12 BOX
			Battery voltage reading (volts):	12.70

DAILY CHECK (For each station visit)

		(Field Tech Initials)		
Date:	1-14-11	(GG)	PUMP FAULT (Yes / No):	NO
Time:	~~1259~~ 1202	( )	Flow Rate (L/min):	2
			Cumulative Sample Volume (L):	OFLO
			Cumulative Sample Time (min):	5042
			Atmospheric Pressure (INS)	28.19
			Temperature inside station unit (°F):	56.9 / 42 BOX
			Battery voltage reading (volts):	12.61

DAILY CHECK (For each station visit)

		(Field Tech Initials)		
Date:		( )	PUMP FAULT (Yes / No):	
Time:		( )	Flow Rate (L/min):	
			Cumulative Sample Volume (L):	
			Cumulative Sample Time (min):	
			Atmospheric Pressure (INS)	
			Temperature inside station unit (°F):	
			Battery voltage reading (volts):	

DAILY CHECK (For each station visit)

		(Field Tech Initials)		
Date:		( )	PUMP FAULT (Yes / No):	
Time:		( )	Flow Rate (L/min):	
			Cumulative Sample Volume (L):	
			Cumulative Sample Time (min):	
			Atmospheric Pressure (INS)	
			Temperature inside station unit (°F):	
			Battery voltage reading (volts):	

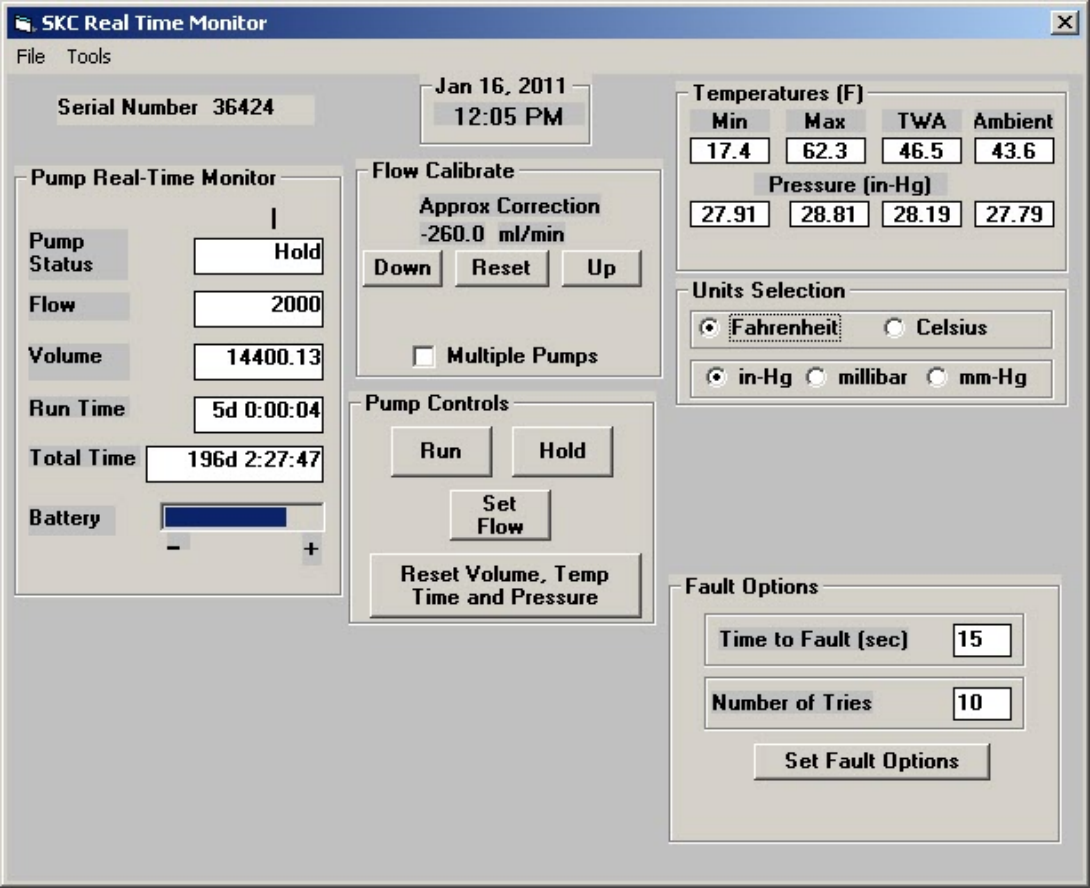
GG

DAILY CHECK (For each station visit)

		(Field Tech Initials)		
Date:		( )	PUMP FAULT (Yes / No):	
Time:		( )	Flow Rate (L/min):	
			Cumulative Sample Volume (L):	
			Cumulative Sample Time (min):	
			Atmospheric Pressure (INS)	
			Temperature inside station unit (°F):	
			Battery voltage reading (volts):	

SKC Pump History
SN 36424
Date Printed: Sunday, January 16, 2011 12:04 PM
Min Temp 17.4F
Max Temp 62.3F
TWA Temp 46.5F
Min Pressure 27.9 In-Hg
Max Pressure 28.8 In-Hg
TWA Pressure 28.2 In-Hg
Flow Correction Approximately -260.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Hold		Mon Jan 10 2011 4:32 PM			0:10
Prog (Hold)		Mon Jan 10 2011 4:32 PM			10:02
Sleep		Mon Jan 10 2011 4:42 PM			7:17:36
Prog (Run)	2000	Tue Jan 11 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Sun Jan 16 2011 12:00 AM			4:59
Sleep		Sun Jan 16 2011 12:05 AM			11:21:08
Hold		Sun Jan 16 2011 11:26 AM			5:16
Sleep		Sun Jan 16 2011 11:31 AM			30:09
Hold		Sun Jan 16 2011 12:01 PM			2:26+


SKC Real Time Monitor
File
Tools
Serial Number 36424
Jan 16, 2011
12:05 PM
Temperatures (F)
Min
Max
TWA
Ambient
17.4
62.3
46.5
43.6
Pressure (in-Hg)
27.91
28.81
28.19
27.79
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
196d 2:27:47
Battery
Flow Calibrate
Approx Correction
-260.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20059**

Station Location: **T-13 (Forest Service)**
Field Technician: **[illegible]**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36484**
Sampling Period: **43**

Sample ID #: _____
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-10-11
Time: 1553

Timer Beginning Date/Time: 1-11-11/2400
Beginning Flow Rate (L/min): .2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-16-11
Time: 1711

Timer Ending Date/Time: 1-16-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.60
Temperature inside station unit (°F): 50.9/41 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Rain & snow during period.

SIGNATURE: [signature] DATE: 1-16-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

ADDITIONAL DAILY CHECK RECORDS

TA-20059

Station Location: **T-13 (Forest Service)**
Sample ID #.
Field Technician: [illegible]
Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36484**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-11-11 (99)
Time: 1034 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1268
Cumulative Sample Time (min): 633
Atmospheric Pressure (INS) 28.18
Temperature inside station unit (°F): 24.4 / 14 BOX
Battery voltage reading (volts): 12.75

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-14-11 (99)
Time: 1146 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): OFLO
Cumulative Sample Time (min): 5025
Atmospheric Pressure (INS) 27.78
Temperature inside station unit (°F): 52.3 / 41 BOX
Battery voltage reading (volts): 12.68

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

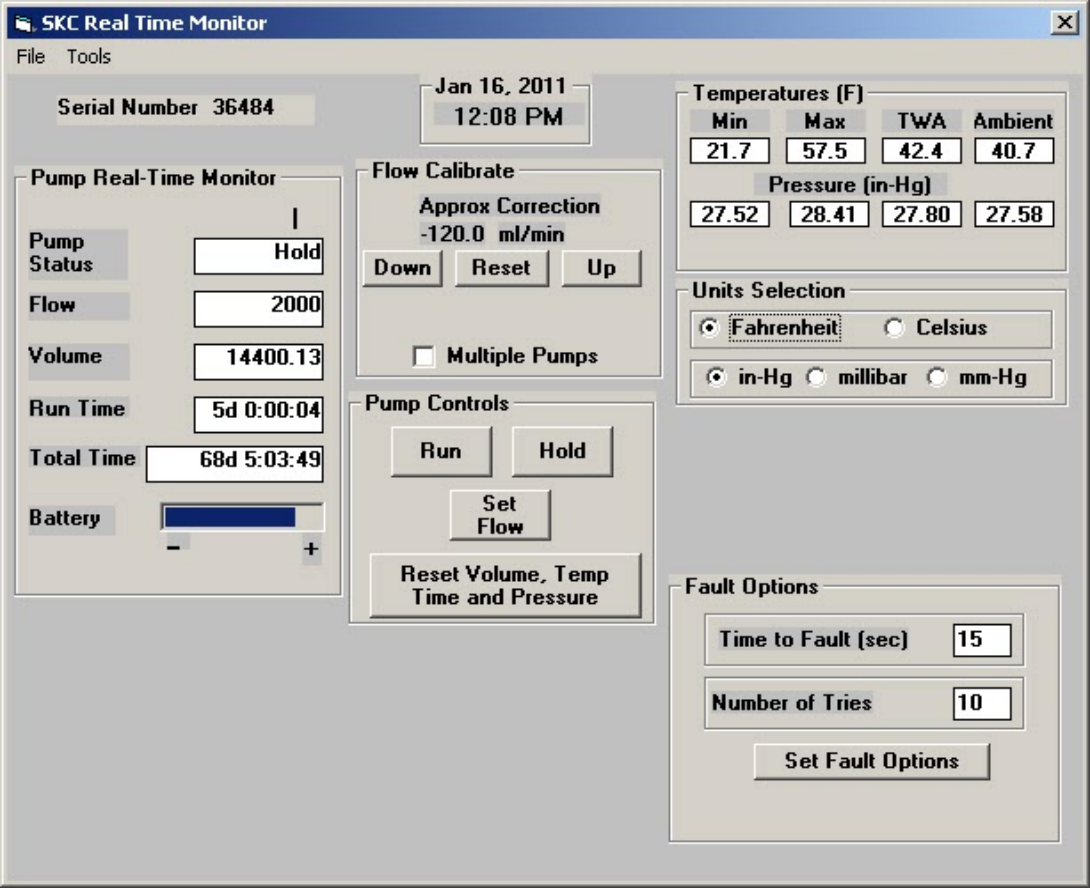
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

Min Pressure 27.5 In-Hg
Max Pressure 28.4 In-Hg
TWA Pressure 27.8 In-Hg
Flow Correction Approximately -120.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Mon Jan 10 2011 4:37 PM			7:41
Sleep		Mon Jan 10 2011 4:45 PM			7:14:21
Prog (Run)	2000	Tue Jan 11 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Sun Jan 16 2011 12:00 AM			4:59
Sleep		Sun Jan 16 2011 12:05 AM			11:05:49
Hold		Sun Jan 16 2011 11:10 AM			5:14
Sleep		Sun Jan 16 2011 11:16 AM			47:50
Hold		Sun Jan 16 2011 12:03 PM			3:06+


SKC Real Time Monitor
File
Tools
Serial Number 36484
Jan 16, 2011
12:08 PM
Temperatures (F)
Min
Max
TWA
Ambient
21.7
57.5
42.4
40.7
Pressure (in-Hg)
27.52
28.41
27.80
27.58
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
68d 5:03:49
Battery
Flow Calibrate
Approx Correction
-120.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20060**

Station Location: **T-14 (City Lot R\R)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36446**
Sampling Period: 43

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-10-11
Time: 1554

Timer Beginning Date/Time: 1-11-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-16-11
Time: 1101

Timer Ending Date/Time: 1-16-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.44
Temperature inside station unit (°F): 49.7 / 41 box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Rain & snow during period.

SIGNATURE: [signature] **DATE:** 1-16-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20060

Station Location: **T-14 (City Lot R\R)**
Sample ID #:
Field Technician: [illegible]
Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36446**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-11-11 ([illegible])
Time: 1011 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1222
Cumulative Sample Time (min): 610
Atmospheric Pressure (INS) 28.00
Temperature inside station unit (°F): 30.3 / 14 BOX
Battery voltage reading (volts): 12.74

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-14-11 ([illegible])
Time: 1124 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): OFLO
Cumulative Sample Time (min): 5004
Atmospheric Pressure (INS) 27.64
Temperature inside station unit (°F): 50.8 / 41 BOX
Battery voltage reading (volts): 12.66

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

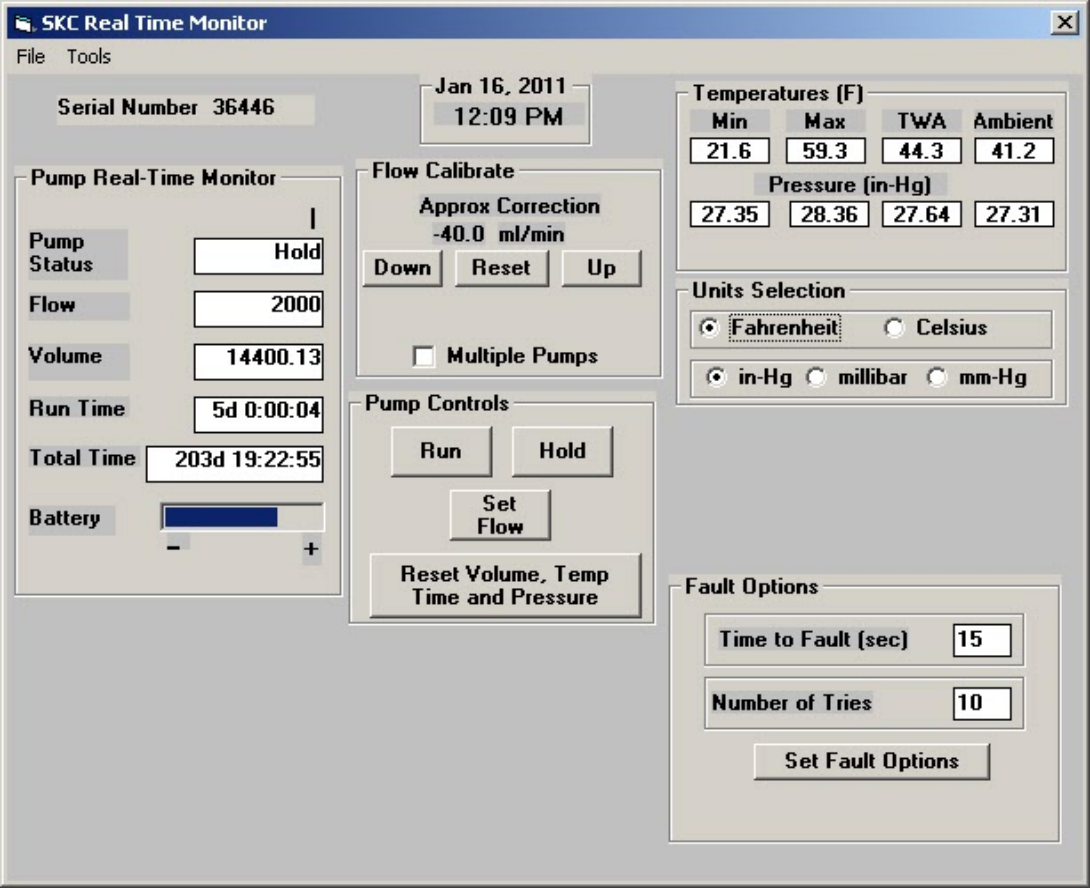
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36446
Date Printed: Sunday, January 16, 2011 12:09 PM
Min Temp 21.6F
Max Temp 59.3F
TWA Temp 44.3F
Min Pressure 27.4 In-Hg
Max Pressure 28.4 In-Hg
TWA Pressure 27.6 In-Hg
Flow Correction Approximately -40.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Mon Jan 10 2011 4:44 PM			7:50
Sleep		Mon Jan 10 2011 4:52 PM			7:07:28
Prog (Run)	2000	Tue Jan 11 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Sun Jan 16 2011 12:00 AM			4:59
Sleep		Sun Jan 16 2011 12:05 AM			10:55:57
Hold		Sun Jan 16 2011 11:00 AM			5:14
Sleep		Sun Jan 16 2011 11:06 AM			59:29
Hold		Sun Jan 16 2011 12:05 PM			3:19+


SKC Real Time Monitor
File
Tools
Serial Number 36446
Jan 16, 2011
12:09 PM
Temperatures (F)
Min
Max
TWA
Ambient
21.6
59.3
44.3
41.2
Pressure (in-Hg)
27.35
28.36
27.64
27.31
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
203d 19:22:55
Battery
Flow Calibrate
Approx Correction
-40.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20061

Station Location: **T-15 (Ranch Motel)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**
Sampling Period: 43

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-10-11
Time: 1555

Timer Beginning Date/Time: 1-11-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-16-11
Time: 1054

Timer Ending Date/Time: 1-16-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7853
Atmospheric Pressure (INS) 27.56
Temperature inside station unit (°F): 56.1/ 41 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Pump Fault on day of Pick up Pump still running. 1-16-11 JJ

Rain + snow during period JJ

SIGNATURE: [signature] **DATE:** 1-16-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20061

Station Location: T-15 (Ranch Motel)
Sample ID #:
Field Technician: [initials]
Filter Lot #: 20526-02
Pump Type/Model: SKC AirChek 2000
Pump Number: 36427

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-11-11 (GG)
Time: 0957 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1193
Cumulative Sample Time (min): 597
Atmospheric Pressure (INS) 28.37
Temperature inside station unit (°F): 29.3 / 12 BOX
Battery voltage reading (volts): 12.76

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-14-11 (GG)
Time: 1117 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 9994
Cumulative Sample Time (min): 4997
Atmospheric Pressure (INS) 27.96
Temperature inside station unit (°F): 55.1 / 40 BOX
Battery voltage reading (volts): 12.70

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

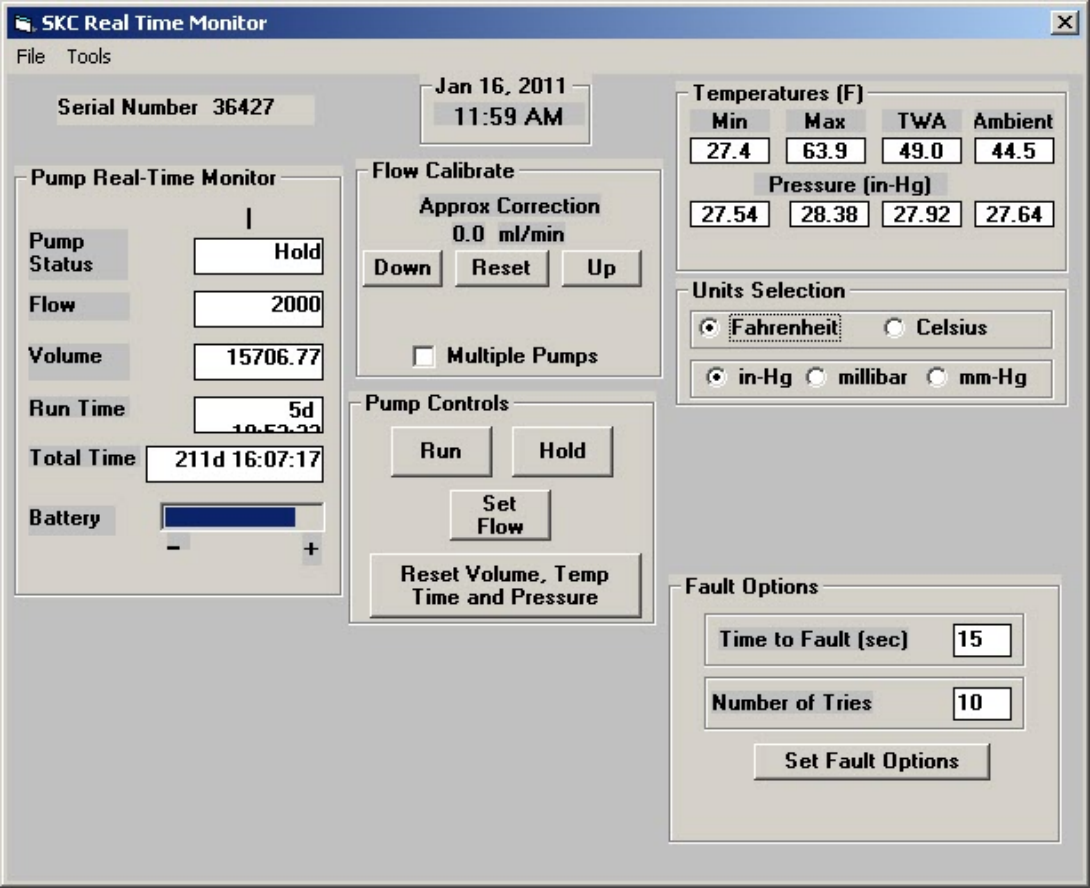
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

Min Pressure 27.5 In-Hg
Max Pressure 28.4 In-Hg
TWA Pressure 27.9 In-Hg
No Flow Correction

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Mon Jan 10 2011 4:48 PM			5:20
Sleep		Mon Jan 10 2011 4:53 PM			7:06:19
Prog (Run)	2000	Tue Jan 11 2011 12:00 AM	1195	1195	9:57:34
Reset		Tue Jan 11 2011 9:57 AM			
Flow	2000	Tue Jan 11 2011 9:57 AM	14512	15707	5d 0:55:48
Hold		Sun Jan 16 2011 10:53 AM			5:48
Sleep		Sun Jan 16 2011 10:59 AM			49:38
Hold		Sun Jan 16 2011 11:48 AM			4:57
Sleep		Sun Jan 16 2011 11:53 AM			2:18
Hold		Sun Jan 16 2011 11:56 AM			3:57+


SKC Real Time Monitor
File
Tools
Serial Number 36427
Jan 16, 2011
11:59 AM
Temperatures (F)
Min
Max
TWA
Ambient
27.4
63.9
49.0
44.5
Pressure (in-Hg)
27.54
28.38
27.92
27.64
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
15706.77
Run Time
5d
Total Time
211d 16:07:17
Battery
Flow Calibrate
Approx Correction
0.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA SI **TA-20062**

Station Location: **T-16 (J. Erickson)** Sample ID #: [illegible]

Field Technician: [illegible] Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000** Sample Type: **TEM**

Pump Number: **36422** Sample Parent ID #: —

Sampling Period: 4 3

PUMP SETUP DAY

Date: 1-10-11

Time: 1556

Timer Beginning Date/Time: 1-11-11/2400

Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-16-11

Time: 1043

Timer Ending Date/Time: 1-16-11/2400

Ending Flow Rate (L/min): 2

Total Sample Volume (L): OFLO

Total Sample Time (min): 7200

Atmospheric Pressure (INS) 27.16

Temperature inside station unit (°F): 53.9/46 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Rain + snow during period

SIGNATURE: [signature] **DATE:** 1-16-11

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA
ADDITIONAL DAILY CHECK RECORDS

TA-20062

Station Location: **T-16 (J. Erickson)**
Sample ID #:
Field Technician: [initials]
Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 1-11-11 ([initials])
Time: 0947 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1173
Cumulative Sample Time (min): 586
Atmospheric Pressure (INS): 27.60
Temperature inside station unit (°F): 22.9 / 10 BOX
Battery voltage reading (volts): 12.68

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 1-14-11 ([initials])
Time: 1102 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 9964
Cumulative Sample Time (min): 4982
Atmospheric Pressure (INS): 27.34
Temperature inside station unit (°F): 56.6 / 46 BOX
Battery voltage reading (volts): 12.62

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

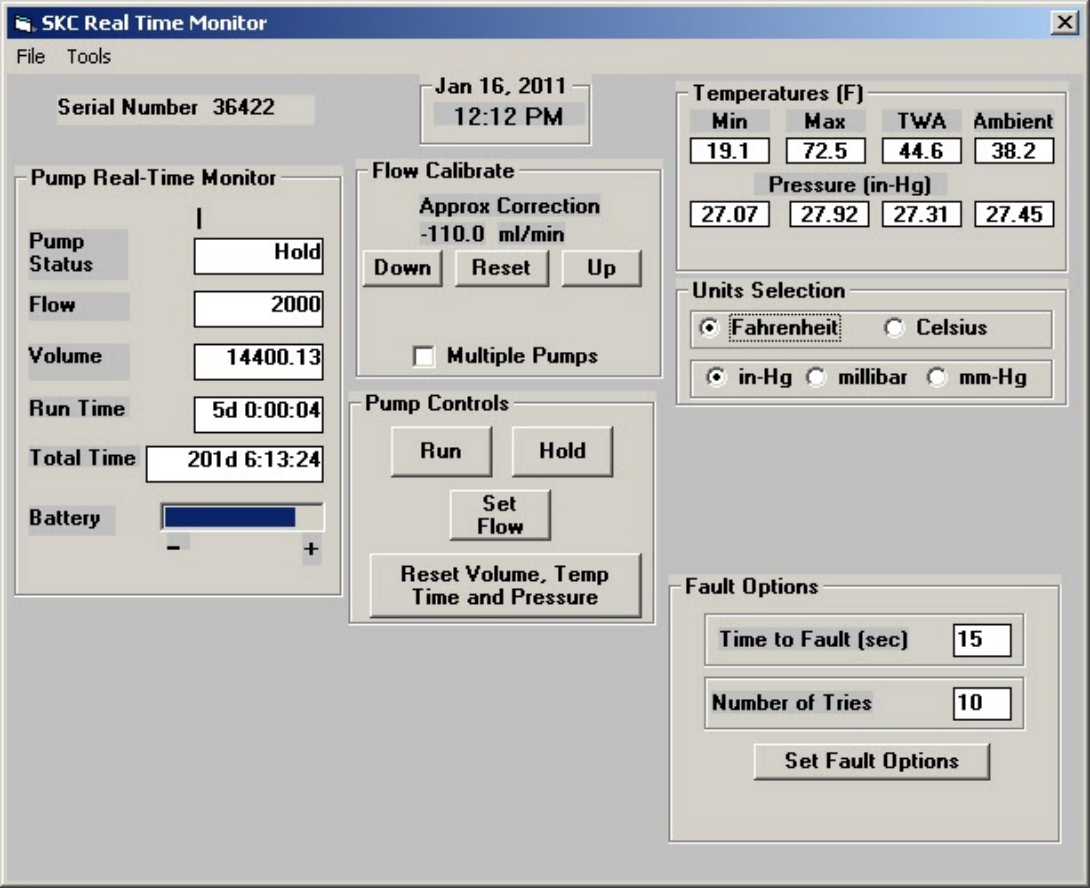
DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36422
Date Printed: Sunday, January 16, 2011 12:11 PM
Min Temp 19.1F
Max Temp 72.5F
TWA Temp 44.6F
Min Pressure 27.1 In-Hg
Max Pressure 27.9 In-Hg
TWA Pressure 27.3 In-Hg
Flow Correction Approximately -110.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Mon Jan 10 2011 4:50 PM			6:07
Sleep		Mon Jan 10 2011 4:56 PM			7:03:52
Prog (Run)	2000	Tue Jan 11 2011 12:00 AM	14400	14400	5d 0:00:01
Hold		Sun Jan 16 2011 12:00 AM			4:59
Sleep		Sun Jan 16 2011 12:05 AM			10:38:12
Hold		Sun Jan 16 2011 10:43 AM			5:25
Sleep		Sun Jan 16 2011 10:48 AM			1:21:27
Hold		Sun Jan 16 2011 12:10 PM			0:55+


SKC Real Time Monitor
File
Tools
Serial Number 36422
Jan 16, 2011
12:12 PM
Temperatures (F)
Min
Max
TWA
Ambient
19.1
72.5
44.6
38.2
Pressure (in-Hg)
27.07
27.92
27.31
27.45
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
201d 6:13:24
Battery
Flow Calibrate
Approx Correction
-110.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20063

Station Location: **T-17 (County Dump)**
Field Technician: **QP**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**
Sampling Period: **43**

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: **—**

PUMP SETUP DAY

Date: 1-10-11
Time: 1557

Timer Beginning Date/Time: 1-11-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-16-11
Time: 1031

Timer Ending Date/Time: 1-16-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmosperic Pressure (INS) 27.46
Temperature inside station unit (°F): 58.5/40 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Rain + Snow during Period

SIGNATURE: Jim Jordan DATE: 1-16-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20063

Station Location: **T-17 (County Dump)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**
Sample ID #:
Filter Lot #: **20526-02**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-11-11 ( )
Time: 0932 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1145
Cumulative Sample Time (min): 572
Atmospheric Pressure (INS) 27.92
Temperature inside station unit (°F): 33.3 / 41 BOX
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-14-11 ( )
Time: 1050 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 9940
Cumulative Sample Time (min): 4970
Atmospheric Pressure (INS) 27.64
Temperature inside station unit (°F): 61.0 / 41 BOX
Battery voltage reading (volts): 12.51

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

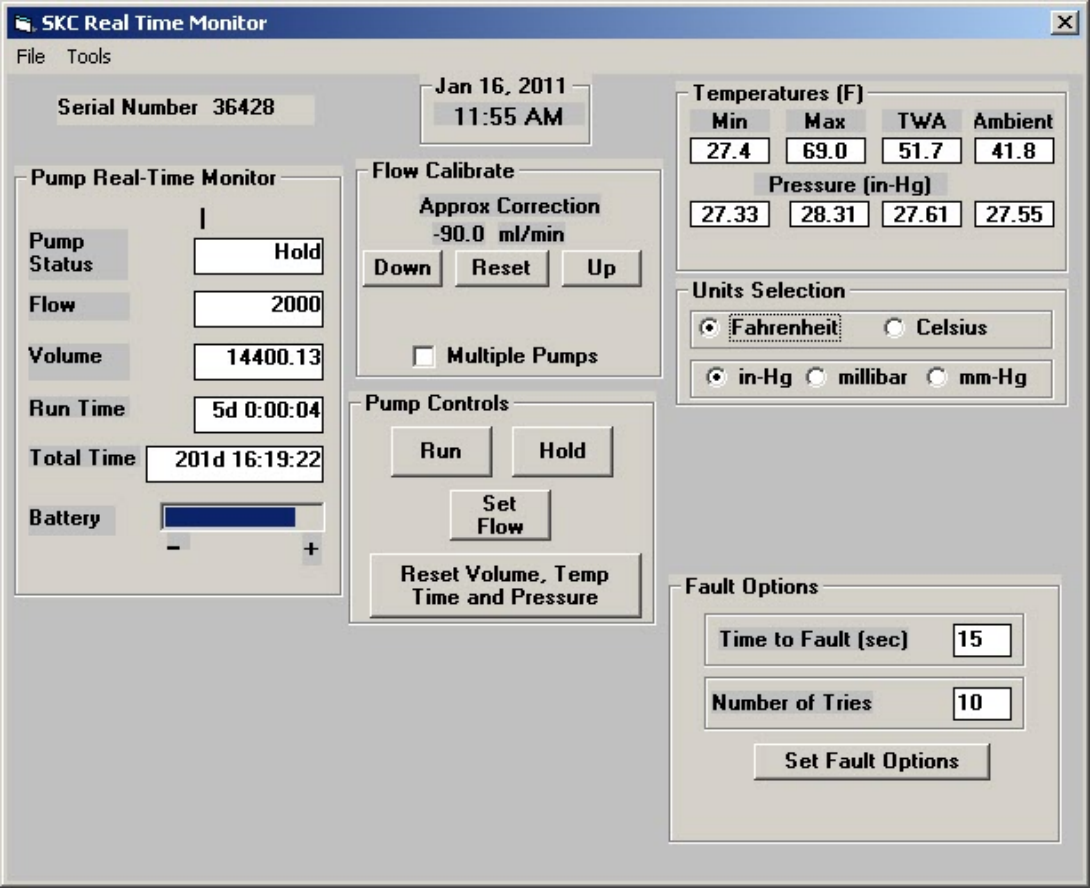
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36428
Date Printed: Sunday, January 16, 2011 11:55 AM
Min Temp 27.4F
Max Temp 69.0F
TWA Temp 51.7F
Min Pressure 27.3 In-Hg
Max Pressure 28.3 In-Hg
TWA Pressure 27.6 In-Hg
Flow Correction Approximately -90.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Mon Jan 10 2011 4:52 PM			5:04
Sleep		Mon Jan 10 2011 4:57 PM			7:02:30
Prog (Run)	2000	Tue Jan 11 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Sun Jan 16 2011 12:00 AM			4:59
Sleep		Sun Jan 16 2011 12:05 AM			10:25:32
Hold		Sun Jan 16 2011 10:30 AM			5:21
Sleep		Sun Jan 16 2011 10:35 AM			1:13:32
Hold		Sun Jan 16 2011 11:49 AM			5:34+


SKC Real Time Monitor
File
Tools
Serial Number 36428
Jan 16, 2011
11:55 AM
Temperatures (F)
Min
Max
TWA
Ambient
27.4
69.0
51.7
41.8
Pressure (in-Hg)
27.33
28.31
27.61
27.55
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
201d 16:19:22
Battery
Flow Calibrate
Approx Correction
-90.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20065**

Station Location: T-17QC(CountyDump) Sample ID #:

Field Technician: — Filter Lot #: 20526-02

Pump Type/Model: SKC AirChek 2000 Sample Type: TEM

Pump Number: 36444 Sample Parent ID #: **TA-20063**

Sampling Period: 4.3

PUMP SETUP DAY

Date: 1-10-11 Timer Beginning Date/Time: 1-11-11/2400

Time: 1558 Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-16-11 Timer Ending Date/Time: 1-16-11/2400

Time: 1030 Ending Flow Rate (L/min): 2

Total Sample Volume (L): OFLO

Total Sample Time (min): 6510

Atmospheric Pressure (INS) 27.32

Temperature inside station unit (°F): 60 / 40 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Pump fault on 1-11-11 took back to Polebarn reProgrammed/Calibate took back out. 1-11-11

Rain + Snow during Period

SIGNATURE: [signature] **DATE:** 1-16-11

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-20065

Station Location: **T-17QC(County Dump)** Sample ID #:
Field Technician: [initials] Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36444**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-11-11 ([initials])
Time: 0934 ( )

PUMP FAULT (Yes / No): Yes
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F): 8BOX
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-14-11 ([initials])
Time: 1048 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 8555
Cumulative Sample Time (min): 4277
Atmospheric Pressure (INS) 27.28
Temperature inside station unit (°F): 76.5
Battery voltage reading (volts): 12.47

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

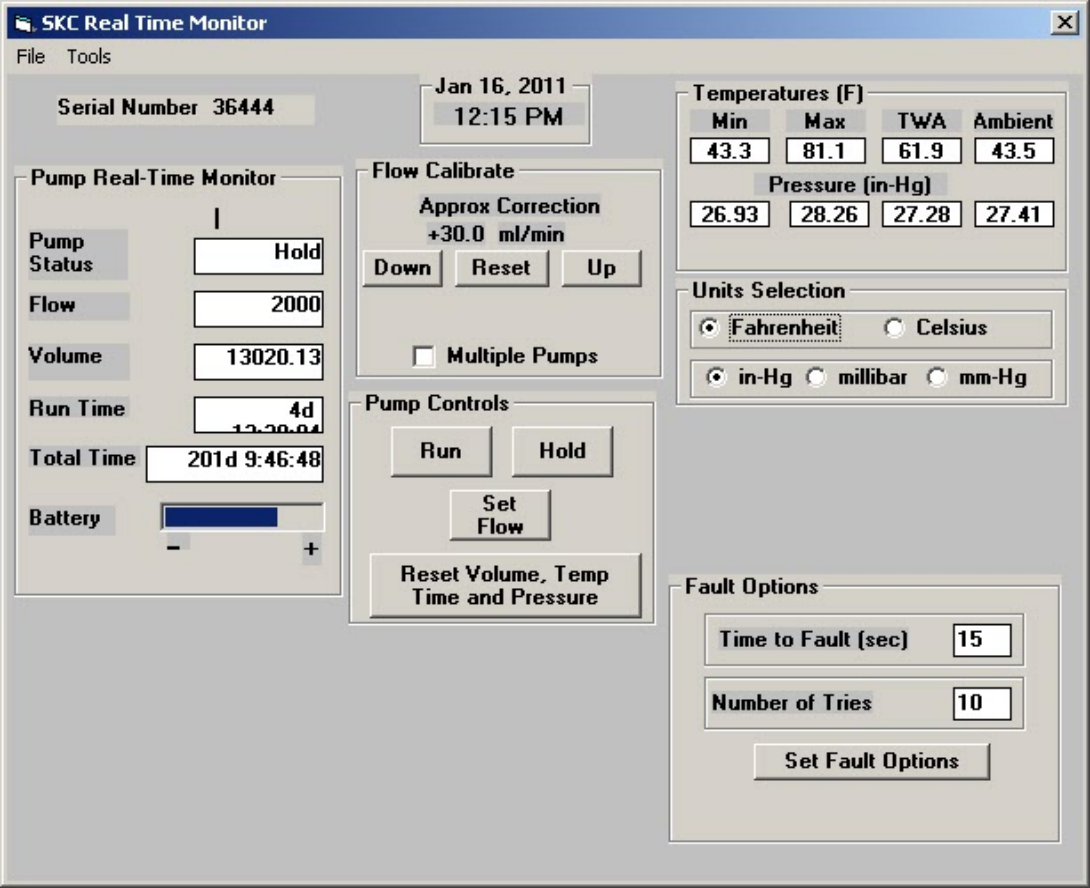
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36444
Date Printed: Sunday, January 16, 2011 12:14 PM
Min Temp 43.3F
Max Temp 81.1F
TWA Temp 61.9F
Min Pressure 26.9 In-Hg
Max Pressure 28.3 In-Hg
TWA Pressure 27.3 In-Hg
Flow Correction Approximately +30.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Jan 11 2011 11:00 AM			5:03
Sleep		Tue Jan 11 2011 11:05 AM			24:14
Prog (Run)	2000	Tue Jan 11 2011 11:30 AM	13020	13020	4d 12:30:02
Hold		Sun Jan 16 2011 12:00 AM			4:59
Sleep		Sun Jan 16 2011 12:05 AM			10:24:50
Hold		Sun Jan 16 2011 10:29 AM			5:39
Sleep		Sun Jan 16 2011 10:35 AM			1:35:42
Hold		Sun Jan 16 2011 12:11 PM			2:48+


SKC Real Time Monitor
File
Tools
Serial Number 36444
Jan 16, 2011
12:15 PM
Temperatures (F)
Min
Max
TWA
Ambient
43.3
81.1
61.9
43.5
Pressure (in-Hg)
26.93
28.26
27.28
27.41
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
13020.13
Run Time
4d
Total Time
201d 9:46:48
Battery
Flow Calibrate
Approx Correction
+30.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20066

Station Location: **Field Blank**
Field Technician: [illegible]
Pump Type/Model: —
Pump Number: —
Sampling Period 4 4

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-18-11
Time: 1400

Timer Beginning Date/Time: 1-19-11/2400
Beginning Flow Rate (L/min): —
Pump Programmed (Yes / No): —
Bios Calibration Within 10 mL (Yes / No) —

PUMP RETRIEVAL DAY

Date: —
Time: —

Timer Ending Date/Time: —
Ending Flow Rate (L/min): —
Total Sample Volume (L): —
Total Sample Time (min): —
Atmospheric Pressure (INS) —
Temperature inside station unit (°F):

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 1-18-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20075

Station Location: T-11 (P.Epps)
Field Technician: gg
Pump Type/Model: SKC AirChek 2000
Pump Number: 36423
Sampling Peiod: 4 4

Sample ID #:
Filter Lot #: 20526-02
Sample Type: TEM
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-18-11
Time: 1401

Timer Beginning Date/Time: 1-19-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-24-11
Time: 1245

Timer Ending Date/Time: 1-24-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 6390
Atmospheric Pressure (INS) 27.96
Temperature inside station unit (°F): 40.9 / 30 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

checked on 22nd to make sure pump was running after reprogram + recalibration after first pump fault on 19th gg

1-22 picked up heater battery to recharge gg

SIGNATURE: [signature] DATE: 1-24-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20075

Station Location: **T-11 (P.Epps)**
Field Technician: **[illegible]**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**

Sample ID #:
Filter Lot #: **20526-02**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-19-11 ([illegible])
Time: 1130 ( )

PUMP FAULT (Yes / No): Yes
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 0
Cumulative Sample Time (min): 0
Atmospheric pressure (mm Hg): 27.94
Temperature inside station unit (°F): 40.6 / 31 BOX
Battery voltage reading (volts): 12.94

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-20-11 ([illegible])
Time: 0935 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 2411
Cumulative Sample Time (min): 1205
Atmospheric Pressure (INS) 27.47
Temperature inside station unit (°F): 67.0 / 31 BOX
Battery voltage reading (volts): —

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-22-11 ([illegible])
Time: 0950 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 8201
Cumulative Sample Time (min): 4100
Atmospheric Pressure (INS) 27.73
Temperature inside station unit (°F): 57.4 / 34 BOX
Battery voltage reading (volts): 12.38

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

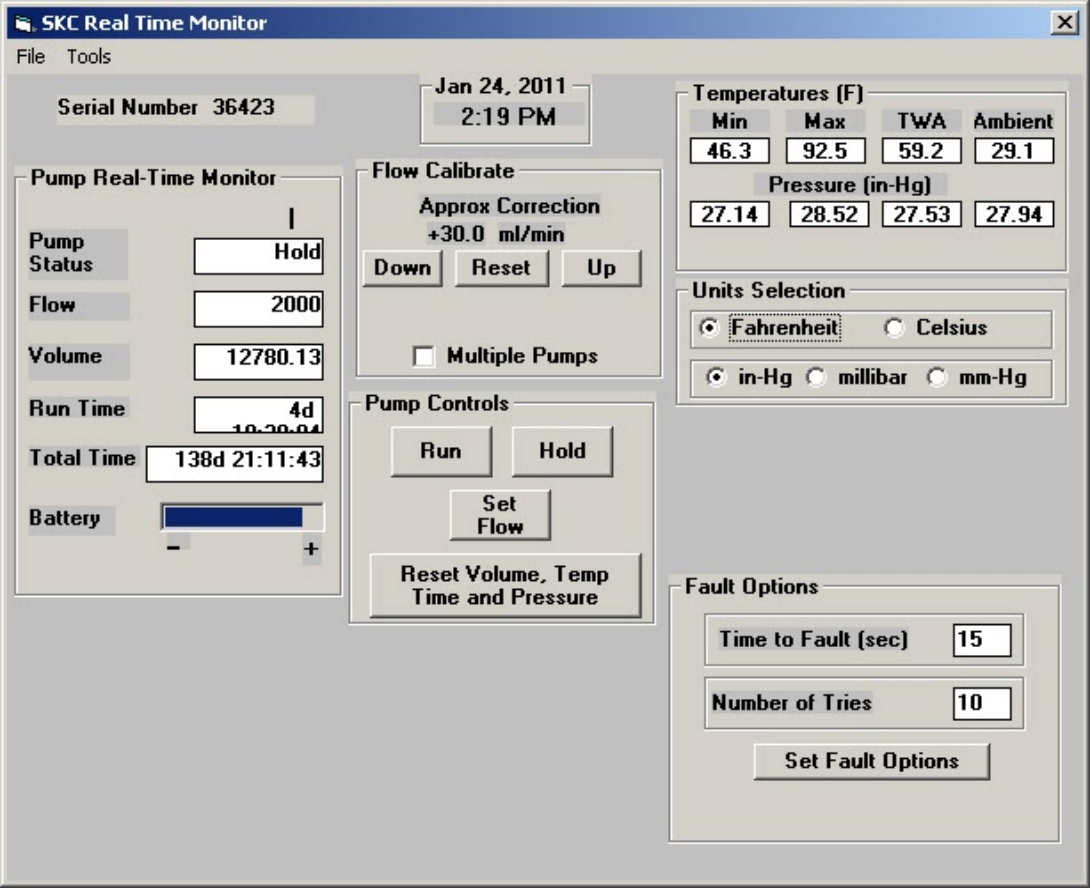
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36423
Date Printed: Monday, January 24, 2011 2:19 PM
Min Temp 46.3F
Max Temp 92.5F
TWA Temp 59.2F
Min Pressure 27.1 In-Hg
Max Pressure 28.5 In-Hg
TWA Pressure 27.5 In-Hg
Flow Correction Approximately +30.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Hold		Wed Jan 19 2011 12:55 PM			1:36
Prog (Hold)		Wed Jan 19 2011 12:57 PM			5:16
Sleep		Wed Jan 19 2011 1:02 PM			27:33
Prog (Run)	2000	Wed Jan 19 2011 1:30 PM	12780	12780	4d 10:30:02
Hold		Mon Jan 24 2011 12:00 AM			4:59
Sleep		Mon Jan 24 2011 12:05 AM			12:40:05
Hold		Mon Jan 24 2011 12:45 PM			5:30
Sleep		Mon Jan 24 2011 12:50 PM			1:11:57
Hold		Mon Jan 24 2011 2:02 PM			4:57
Sleep		Mon Jan 24 2011 2:07 PM			10:10
Hold		Mon Jan 24 2011 2:17 PM			1:20+


SKC Real Time Monitor
File
Tools
Serial Number 36423
Jan 24, 2011
2:19 PM
Temperatures (F)
Min
Max
TWA
Ambient
46.3
92.5
59.2
29.1
Pressure (in-Hg)
27.14
28.52
27.53
27.94
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
12780.13
Run Time
4d
Total Time
138d 21:11:43
Battery
Flow Calibrate
Approx Correction
+30.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20068

Station Location: **T-11QC(P.EPPS)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36444**
Sampling Period: 44

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: **TA-20075**

PUMP SETUP DAY

Date: 1-18-11
Time: 1402

Timer Beginning Date/Time: 1-19-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-24-11
Time: 1247

Timer Ending Date/Time: 1-24-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.78
Temperature inside station unit (°F): 47.9/3080X

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

1-22 Picked up heater battery for recharge [illegible]

SIGNATURE: [signature] **DATE:** 1-24-11

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-20068

Station Location: **T-11QC(P.EPPS)**
Sample ID #:
Field Technician: [signature]
Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36444**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-19-11 (gg)
Time: 1131 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1383
Cumulative Sample Time (min): 691
Atmospheric Pressure (INS) 27.83
Temperature inside station unit (°F): 50.9 / 31 BOX
Battery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-22-11 (gg)
Time: 0954 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 9827
Cumulative Sample Time (min): 4913
Atmospheric Pressure (INS) 27.67
Temperature inside station unit (°F): 55.7 / 34 BOX
Battery voltage reading (volts): 12.56

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) gg

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

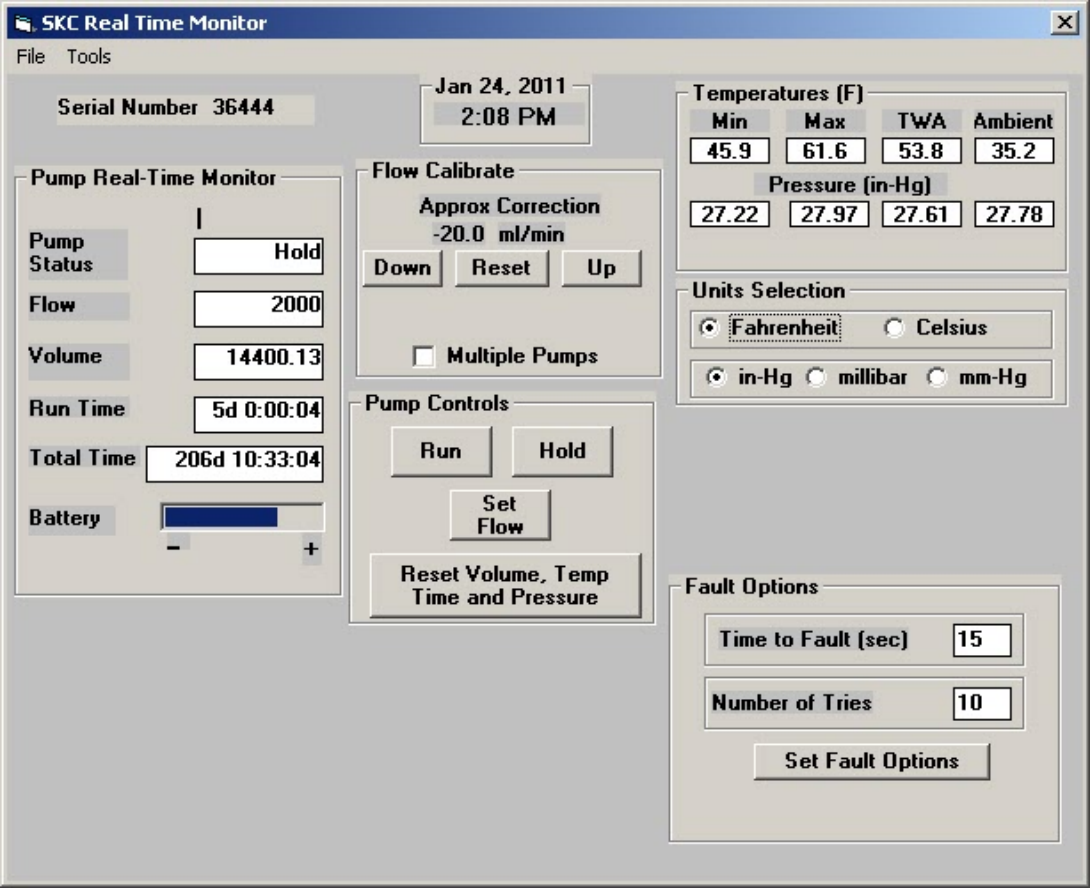
(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36444
Date Printed: Monday, January 24, 2011 2:08 PM
Min Temp 45.9F
Max Temp 61.6F
TWA Temp 53.8F
Min Pressure 27.2 In-Hg
Max Pressure 28.0 In-Hg
TWA Pressure 27.6 In-Hg
Flow Correction Approximately -20.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Jan 18 2011 2:20 PM			5:12
Sleep		Tue Jan 18 2011 2:25 PM			9:34:36
Prog (Run)	2000	Wed Jan 19 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Jan 24 2011 12:00 AM			4:59
Sleep		Mon Jan 24 2011 12:05 AM			12:42:11
Hold		Mon Jan 24 2011 12:47 PM			5:24
Sleep		Mon Jan 24 2011 12:52 PM			1:10:16
Hold		Mon Jan 24 2011 2:02 PM			5:08+


SKC Real Time Monitor
File
Tools
Serial Number 36444
Jan 24, 2011
2:08 PM
Temperatures (F)
Min
Max
TWA
Ambient
45.9
61.6
53.8
35.2
Pressure (in-Hg)
27.22
27.97
27.61
27.78
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
206d 10:33:04
Battery
Flow Calibrate
Approx Correction
-20.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20069

Station Location: **T-12 (Fire Station)**
Field Technician: JG
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**
Sampling Period: 44

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: ——

PUMP SETUP DAY

Date: 1-18-11
Time: 1403

Timer Beginning Date/Time: 1-19-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-24-11
Time: 1239

Timer Ending Date/Time: 1-24-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.28
Temperature inside station unit (°F): 37.5 33 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

1-22 Picked up heater battery for recharge JG

SIGNATURE: [signature] DATE: 1-24-11

TA-20069

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

Station Location: **T-12 (Fire Station)**
Field Technician: gg
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**
Sample ID #:
Filter Lot #: **20526-02**

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 1-19-11 (gg)
Time: 1140 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1401
Cumulative Sample Time (min): 700
Atmospheric Pressure (INS) 28.41
Temperature inside station unit (°F): 50.5 / 34 BOX
Battery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 1-22-11 (gg)
Time: 1003 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 9846
Cumulative Sample Time (min): 4923
Atmospheric Pressure (INS) 28.29
Temperature inside station unit (°F): 49.2 / 34 BOX
Battery voltage reading (volts): 12.64

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) gg
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

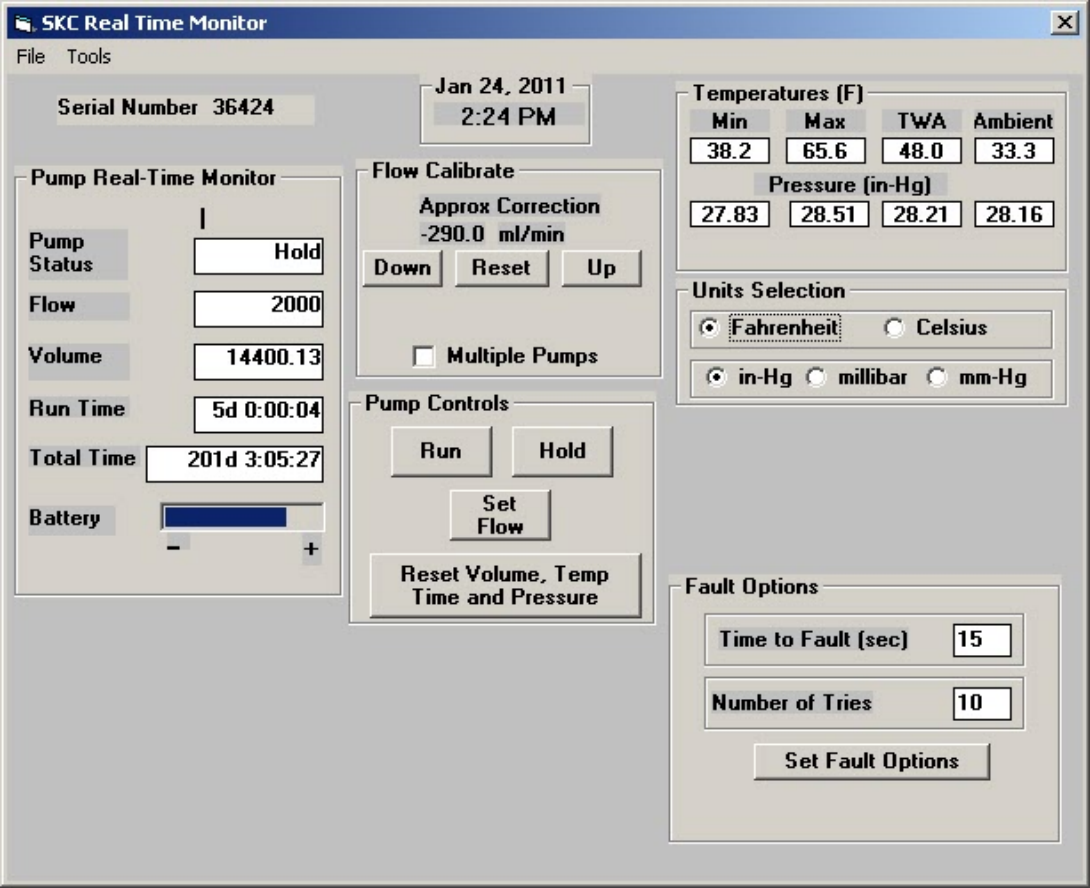
DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

SKC Pump History
SN 36424
Date Printed: Monday, January 24, 2011 2:24 PM
Min Temp 38.2F
Max Temp 65.6F
TWA Temp 48.0F
Min Pressure 27.8 In-Hg
Max Pressure 28.5 In-Hg
TWA Pressure 28.2 In-Hg
Flow Correction Approximately -290.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Jan 18 2011 2:11 PM			6:26
Sleep		Tue Jan 18 2011 2:17 PM			9:42:18
Prog (Run)	2000	Wed Jan 19 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Jan 24 2011 12:00 AM			4:59
Sleep		Mon Jan 24 2011 12:05 AM			12:33:38
Hold		Mon Jan 24 2011 12:38 PM			5:21
Sleep		Mon Jan 24 2011 12:44 PM			1:39:16
Hold		Mon Jan 24 2011 2:23 PM			0:44+


SKC Real Time Monitor
File
Tools
Serial Number 36424
Jan 24, 2011
2:24 PM
Temperatures (F)
Min
Max
TWA
Ambient
38.2
65.6
48.0
33.3
Pressure (in-Hg)
27.83
28.51
28.21
28.16
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
201d 3:05:27
Battery
Flow Calibrate
Approx Correction
-290.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20070

Station Location: **T-13 (Forest Service)**
Field Technician: JJ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36484**
Sampling Period: 4/4

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-18-11
Time: 1404

Timer Beginning Date/Time: 1-19-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-24-11
Time: 1256

Timer Ending Date/Time: 1-24-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLo
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.97
Temperature inside station unit (°F): 33.7 / 30 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

1-22 picked up heater battery for recharge JJ

SIGNATURE: JJ Jordan **DATE:** 1-24-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20070

Station Location: **T-13 (Forest Service)** Sample ID #:

Field Technician: [illegible]

Pump Type/Model: **SKC AirChek 2000** Filter Lot #: **20526-02**

Pump Number: **36484**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-19-11 ([illegible])

Time: 1147 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1415

Cumulative Sample Time (min): 707

Atmospheric Pressure (INS) 27.95

Temperature inside station unit (°F): 43.5 / 32 BOX

Battery voltage reading (volts): 12.82

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-22-11 ([illegible])

Time: 0942 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 9804

Cumulative Sample Time (min): 4902

Atmospheric Pressure (INS) 27.85

Temperature inside station unit (°F): 46.8 / 34 BOX

Battery voltage reading (volts): 12.68

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

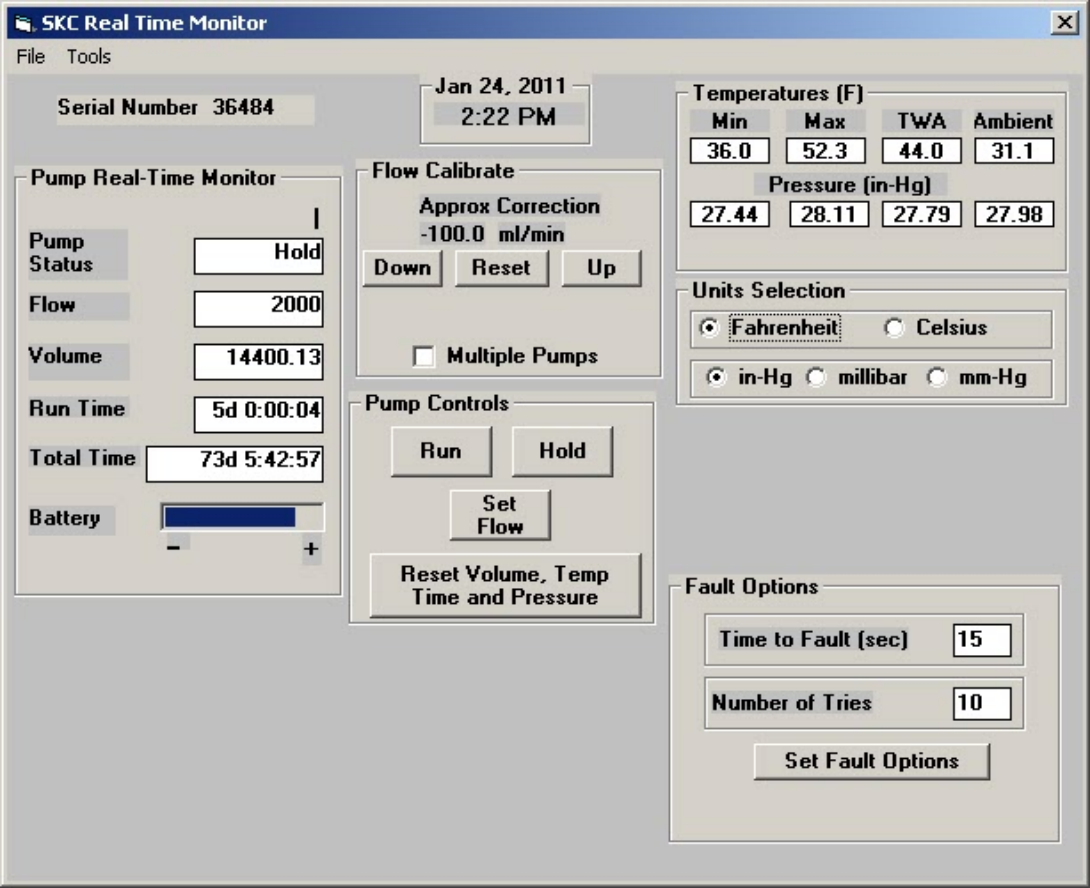
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36484
Date Printed: Monday, January 24, 2011 2:22 PM
Min Temp 36.0F
Max Temp 52.3F
TWA Temp 44.0F
Min Pressure 27.4 In-Hg
Max Pressure 28.1 In-Hg
TWA Pressure 27.8 In-Hg
Flow Correction Approximately -100.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Jan 18 2011 2:13 PM			7:57
Sleep		Tue Jan 18 2011 2:21 PM			9:38:41
Prog (Run)	2000	Wed Jan 19 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Jan 24 2011 12:00 AM			4:59
Sleep		Mon Jan 24 2011 12:05 AM			12:51:32
Hold		Mon Jan 24 2011 12:56 PM			5:21
Sleep		Mon Jan 24 2011 1:01 PM			1:16:08
Hold		Mon Jan 24 2011 2:18 PM			3:58+


SKC Real Time Monitor
File
Tools
Serial Number 36484
Jan 24, 2011
2:22 PM
Temperatures (F)
Min
Max
TWA
Ambient
36.0
52.3
44.0
31.1
Pressure (in-Hg)
27.44
28.11
27.79
27.98
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
73d 5:42:57
Battery
Flow Calibrate
Approx Correction
-100.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20071

Station Location: **T-14 (City Lot R\R)**
Sample ID #:
Field Technician:
Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Sample Type: **TEM**
Pump Number: **36446**
Sample Parent ID #: —
Sampling Period: 44

PUMP SETUP DAY

Date: 1-18-11
Time: 1405
Timer Beginning Date/Time: 1-19-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-24-11
Time: 1226
Timer Ending Date/Time: 1-24-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.84
Temperature inside station unit (°F): 39.2 / 31 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

1-22 Picked up heater battery for recharge

SIGNATURE: [signature] **DATE:** 1-24-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20071

Station Location: **T-14 (City Lot R\R)** Sample ID #:

Field Technician: [initials] Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36446**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-19-11 ([initials])

Time: 1120 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1360

Cumulative Sample Time (min): 680

Atmospheric Pressure (INS) 27.83

Temperature inside station unit (°F): 49.7 / 34 BOX

Battery voltage reading (volts): 12.81

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-22-11 ([initials])

Time: 0932 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 9784

Cumulative Sample Time (min): 4892

Atmospheric Pressure (INS) 27.68

Temperature inside station unit (°F): 49.5 / 34 BOX

Battery voltage reading (volts): 12.68

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

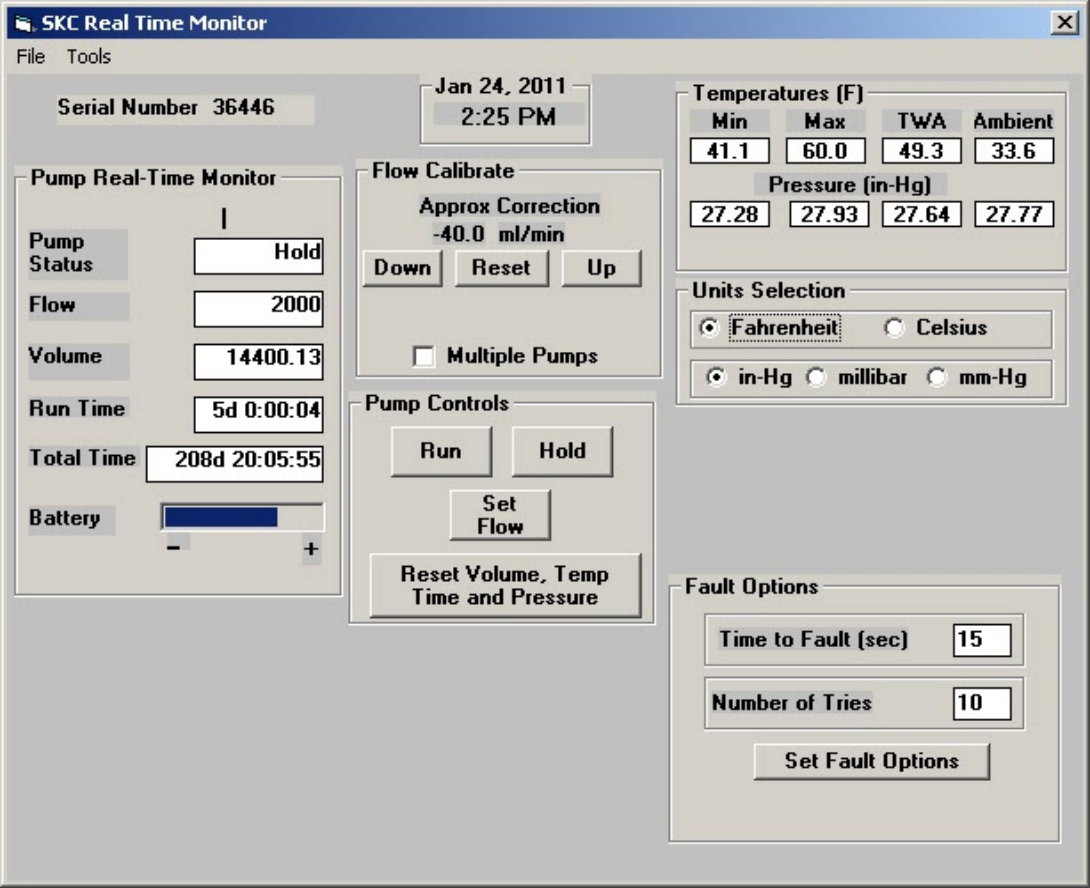
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36446
Date Printed: Monday, January 24, 2011 2:26 PM
Min Temp 41.1F
Max Temp 60.0F
TWA Temp 49.3F
Min Pressure 27.3 In-Hg
Max Pressure 27.9 In-Hg
TWA Pressure 27.6 In-Hg
Flow Correction Approximately -40.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Jan 18 2011 2:15 PM			5:35
Sleep		Tue Jan 18 2011 2:21 PM			9:38:28
Prog (Run)	2000	Wed Jan 19 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Jan 24 2011 12:00 AM			4:59
Sleep		Mon Jan 24 2011 12:05 AM			12:21:26
Hold		Mon Jan 24 2011 12:26 PM			5:25
Sleep		Mon Jan 24 2011 12:31 PM			1:50:07
Hold		Mon Jan 24 2011 2:21 PM			4:01+


SKC Real Time Monitor
File
Tools
Serial Number 36446
Jan 24, 2011
2:25 PM
Temperatures (F)
Min
Max
TWA
Ambient
41.1
60.0
49.3
33.6
Pressure (in-Hg)
27.28
27.93
27.64
27.77
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
208d 20:05:55
Battery
Flow Calibrate
Approx Correction
-40.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA

TA-20072

Station Location: **T-15 (Ranch Motel)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36427**
Sampling Period: 44

Sample ID #
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-18-11
Time: 1406

Timer Beginning Date/Time: 1-19-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-24-11
Time: 1221

Timer Ending Date/Time: 1-24-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.12
Temperature inside station unit (°F): 35.4/30 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

1-22 picked up heater battery for recharge [illegible]

SIGNATURE: [signature] DATE: 1-24-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20072

Station Location: T-15 (Ranch Motel) Sample ID #:

Field Technician: [initials] Filter Lot #: 20526-02

Pump Type/Model: SKC AirChek 2000

Pump Number: 36427

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-19-11 ([initials])

Time: 1114 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1348

Cumulative Sample Time (min): 674

Atmospheric Pressure (INS) 28.14

Temperature inside station unit (°F): 46.3 / 31 BOX

Battery voltage reading (volts): 12.82

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-22-11 ([initials])

Time: 0921 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 9763

Cumulative Sample Time (min): 4881

Atmospheric Pressure (INS) 27.98

Temperature inside station unit (°F): 46.8 / 32 BOX

Battery voltage reading (volts): 12.71

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

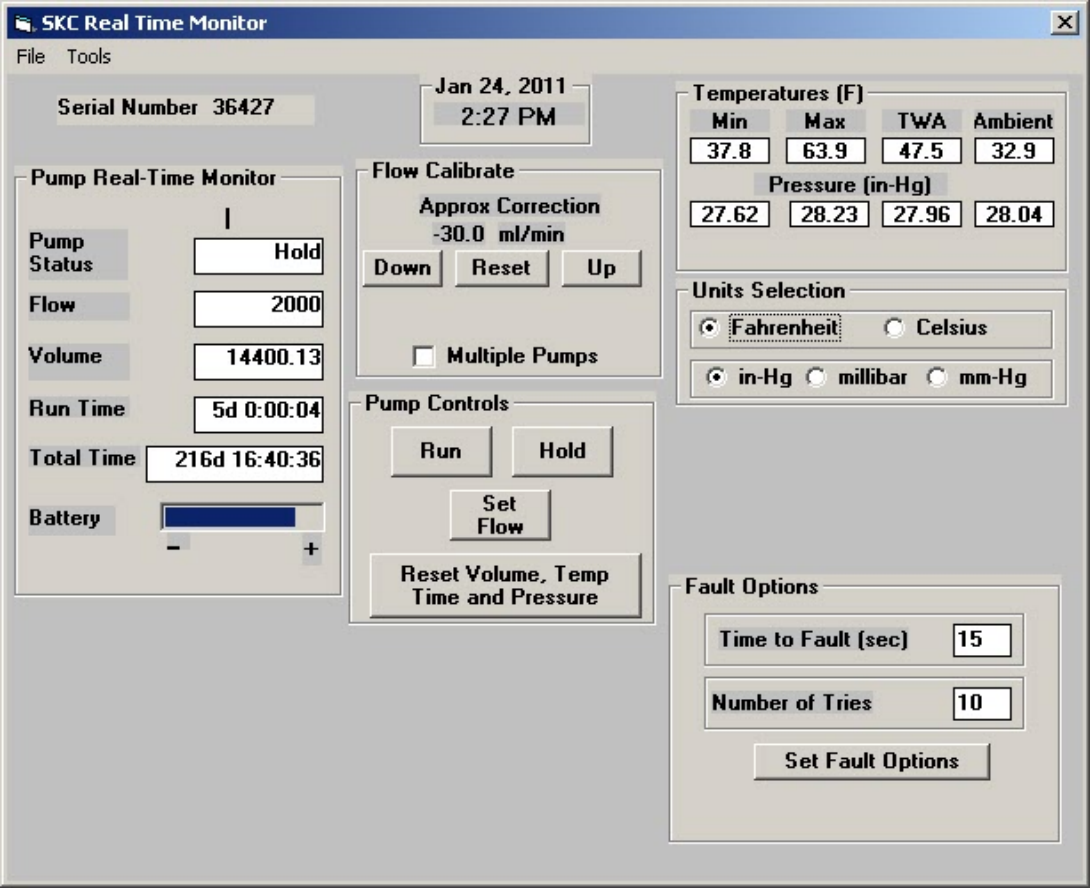
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36427
Date Printed: Monday, January 24, 2011 2:28 PM
Min Temp 37.8F
Max Temp 63.9F
TWA Temp 47.5F
Min Pressure 27.6 In-Hg
Max Pressure 28.2 In-Hg
TWA Pressure 28.0 In-Hg
Flow Correction Approximately -30.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Jan 18 2011 2:05 PM			6:50
Sleep		Tue Jan 18 2011 2:12 PM			9:47:13
Prog (Run)	2000	Wed Jan 19 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Jan 24 2011 12:00 AM			4:59
Sleep		Mon Jan 24 2011 12:05 AM			12:15:42
Hold		Mon Jan 24 2011 12:20 PM			5:24
Sleep		Mon Jan 24 2011 12:26 PM			1:59:10
Hold		Mon Jan 24 2011 2:25 PM			2:43+


SKC Real Time Monitor
File
Tools
Serial Number 36427
Jan 24, 2011
2:27 PM
Temperatures (F)
Min
Max
TWA
Ambient
37.8
63.9
47.5
32.9
Pressure (in-Hg)
27.62
28.23
27.96
28.04
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
216d 16:40:36
Battery
Flow Calibrate
Approx Correction
-30.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20073

Station Location: **T-16 (J. Erickson)**
Field Technician: [signature]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**
Sampling Period: 44

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-18-11
Time: 1407

Timer Beginning Date/Time: 1-19-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-24-11
Time: 1211

Timer Ending Date/Time: 1-24-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0F20
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 27.34
Temperature inside station unit (°F): 34.8/ 30 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

1-22 picked up heater battery for recharge [signature]

SIGNATURE: [signature] **DATE:** 1-24-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20073

Station Location: **T-16 (J. Erickson)** Sample ID #:

Field Technician: [illegible]

Pump Type/Model: **SKC AirChek 2000** Filter Lot #: **20526-02**

Pump Number: **36422**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-19-11 ([illegible])

Time: 1104 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1328

Cumulative Sample Time (min): 664

Atmospheric Pressure (INS) 27.38

Temperature inside station unit (°F): 38.0 / 31 BOX

Battery voltage reading (volts): 12.76

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-22-11 ([illegible])

Time: 0909 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 9737

Cumulative Sample Time (min): 4868

Atmospheric Pressure (INS) 27.14

Temperature inside station unit (°F): 52.4 / 38 BOX

Battery voltage reading (volts): 12.51

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) [illegible]

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

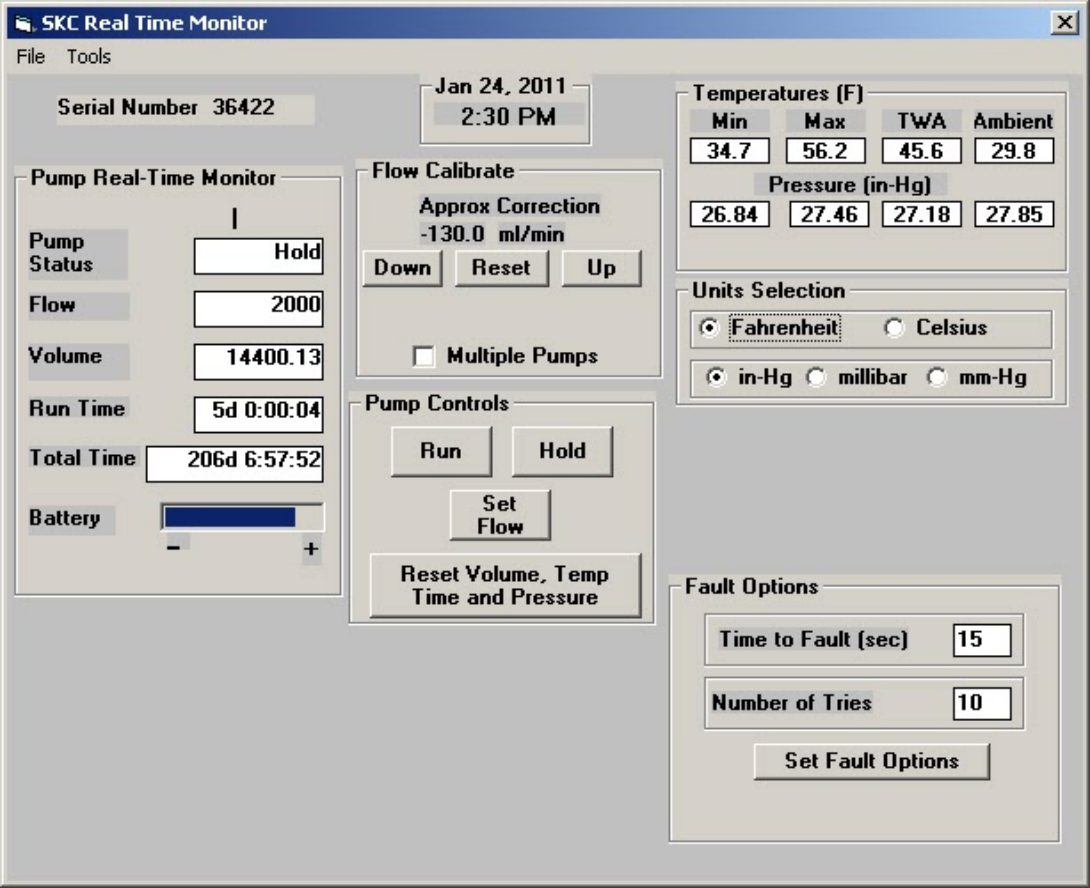
Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36422
Date Printed: Monday, January 24, 2011 2:30 PM
Min Temp 34.7F
Max Temp 56.2F
TWA Temp 45.6F
Min Pressure 26.8 In-Hg
Max Pressure 27.5 In-Hg
TWA Pressure 27.2 In-Hg
Flow Correction Approximately -130.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Jan 18 2011 2:17 PM			6:01
Sleep		Tue Jan 18 2011 2:23 PM			9:36:21
Prog (Run)	2000	Wed Jan 19 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Jan 24 2011 12:00 AM			4:59
Sleep		Mon Jan 24 2011 12:05 AM			12:05:46
Hold		Mon Jan 24 2011 12:10 PM			5:26
Sleep		Mon Jan 24 2011 12:16 PM			2:11:23
Hold		Mon Jan 24 2011 2:27 PM			2:24+


SKC Real Time Monitor
File
Tools
Serial Number 36422
Jan 24, 2011
2:30 PM
Temperatures (F)
Min
Max
TWA
Ambient
34.7
56.2
45.6
29.8
Pressure (in-Hg)
26.84
27.46
27.18
27.85
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
206d 6:57:52
Battery
Flow Calibrate
Approx Correction
-130.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20074

Station Location: **T-17 (County Dump)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**
Sampling Period: 44

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-18-11
Time: 1408

Timer Beginning Date/Time: 1-19-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 1-24-11
Time: 1156

Timer Ending Date/Time: 1-24-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): 0FL0
Total Sample Time (min): 7200
Atmosperic Pressure (INS) 27.80
Temperature inside station unit (°F): 37.2 / 27BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

1-22 picked up heater battery for recharge [illegible]

SIGNATURE: [signature] **DATE:** 1-24-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20074

Station Location: **T-17 (County Dump)** Sample ID #:

Field Technician: [illegible]

Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36428**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-19-11 ([illegible])

Time: 1056 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1312

Cumulative Sample Time (min): 655

Atmospheric Pressure (INS) 27.77

Temperature inside station unit (°F): 54.2 / 34 BOX

Battery voltage reading (volts): 12.83

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-22-11 ([illegible])

Time: 0855 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 9711

Cumulative Sample Time (min): 4855

Atmospheric Pressure (INS) 27.61

Temperature inside station unit (°F): 54.2 / 32 BOX

Battery voltage reading (volts): 12.58

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric pressure (INS):

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

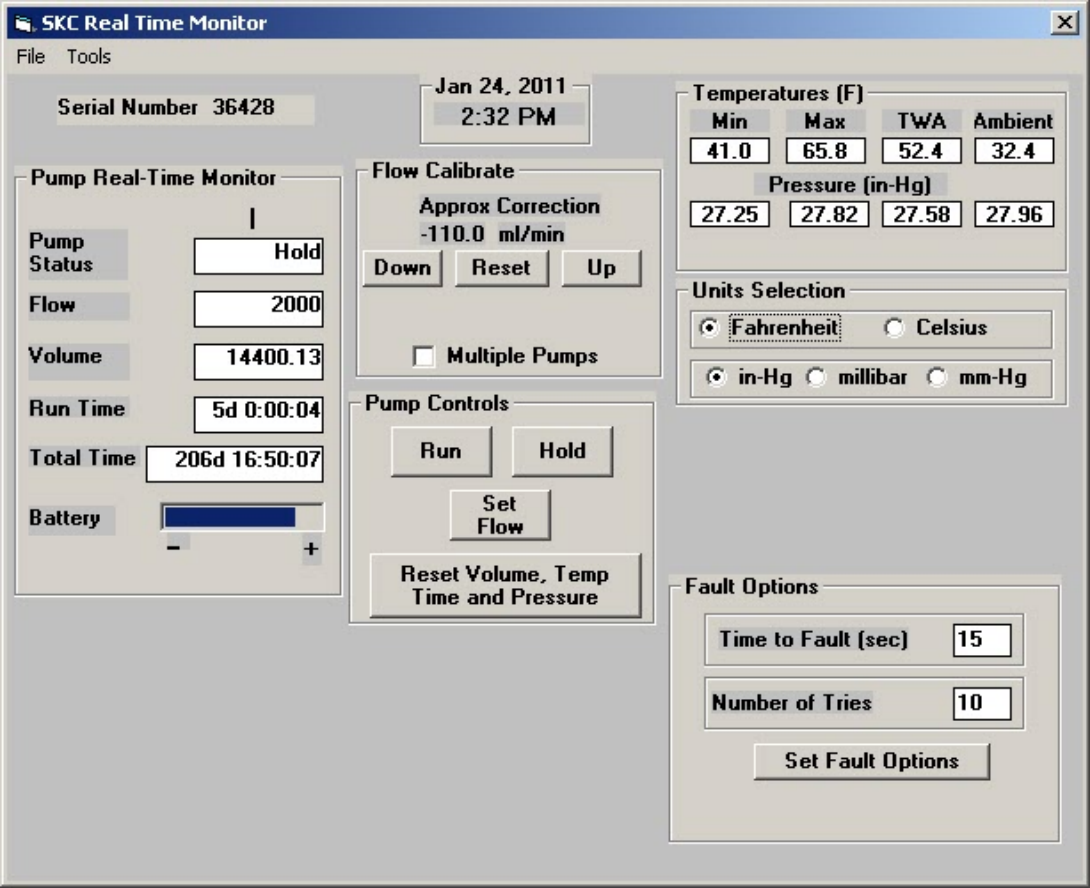
Atmospheric Pressure (INS

Temperature inside station unit (°F):

Battery voltage reading (volts):

SKC Pump History
SN 36428
Date Printed: Monday, January 24, 2011 2:32 PM
Min Temp 41.0F
Max Temp 65.8F
TWA Temp 52.4F
Min Pressure 27.2 In-Hg
Max Pressure 27.8 In-Hg
TWA Pressure 27.6 In-Hg
Flow Correction Approximately -110.0 ml/min

Mode	Value	Start	Volume Liters	Accum Volume	Duration
Prog (Hold)		Tue Jan 18 2011 2:04 PM			5:59
Sleep		Tue Jan 18 2011 2:10 PM			9:49:11
Prog (Run)	2000	Wed Jan 19 2011 12:00 AM	14400	14400	5d 0:00:02
Hold		Mon Jan 24 2011 12:00 AM			4:59
Sleep		Mon Jan 24 2011 12:05 AM			11:51:21
Hold		Mon Jan 24 2011 11:56 AM			5:18
Sleep		Mon Jan 24 2011 12:01 PM			2:27:24
Hold		Mon Jan 24 2011 2:29 PM			2:56+


SKC Real Time Monitor
File
Tools
Serial Number 36428
Jan 24, 2011
2:32 PM
Temperatures (F)
Min
Max
TWA
Ambient
41.0
65.8
52.4
32.4
Pressure (in-Hg)
27.25
27.82
27.58
27.96
Pump Real-Time Monitor
Pump Status
Hold
Flow
2000
Volume
14400.13
Run Time
5d 0:00:04
Total Time
206d 16:50:07
Battery
Flow Calibrate
Approx Correction
-110.0 ml/min
Down
Reset
Up
Multiple Pumps
Units Selection
Fahrenheit
Celsius
in-Hg
millibar
mm-Hg
Pump Controls
Run
Hold
Set Flow
Reset Volume, Temp Time and Pressure
Fault Options
Time to Fault (sec)
15
Number of Tries
10
Set Fault Options

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20076**

Station Location: **Field Blank** Sample ID #: ____

Field Technician: [illegible] Filter Lot #: **20526-02**

Pump Type/Model: — Sample Type: **TEM**

Pump Number: — Sample Parent ID #: —

Sampling Period 45

PUMP SETUP DAY

Timer Beginning Date/Time: 1-29-11/2400

Date: 1-29-11 Beginning Flow Rate (L/min): —

Time: 1156 Pump Programmed (Yes / No): —

Bios Calibration Within 10 mL (Yes / No) —

PUMP RETRIEVAL DAY

Timer Ending Date/Time: 2-3-11/2400

Date: — Ending Flow Rate (L/min): —

Time: — Total Sample Volume (L): —

Total Sample Time (min): —

Atmospheric Pressure (INS) —

Temperature inside station unit (°F): —

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 1-28-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20077

Station Location: **T-11 (P.Epps)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**
Sampling Peiod: 45

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-28-11
Time: 1204

Timer Beginning Date/Time: 1-29-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 2-3-11
Time: 1155

Timer Ending Date/Time: 2-3-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.45
Temperature inside station unit (°F): 45.7 / 24.80x

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 2-3-11

TETRA TECH EM INC.
OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S
ADDITIONAL DAILY CHECK RECORDS

TA-20077

Station Location: **T-11 (P.Epps)**
Sample ID #:
Field Technician:
Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36423**

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 1-29-11 ( )
Time: 0959 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1198
Cumulative Sample Time (min): 599
Atmospheric pressure (mm Hg): 27.26
Temperature inside station unit (°F): 57.7/41 BOX
Battery voltage reading (volts): 12.81

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: 2-1-11 ( )
Time: 1108 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 9976
Cumulative Sample Time (min): 4986
Atmospheric Pressure (INS) 27.81
Temperature inside station unit (°F): 20.00/ 14 BOX
Battery voltage reading (volts): 12.22

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)
Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20078

Station Location: **T-12 (Fire Station)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36424**
Sampling Period: 45

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: ——

PUMP SETUP DAY

Date: 1-28-11
Time: 1203

Timer Beginning Date/Time: 1-28-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 2-3-11
Time: 1203

Timer Ending Date/Time: 2-3-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.73
Temperature inside station unit (°F): 26.2 /25 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

Heater battery not charged enough to work took in for recharge, took back out to station, later that same day

SIGNATURE: [signature] **DATE:** 2-3-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20078

Station Location: **T-12 (Fire Station)** Sample ID #:

Field Technician: GP Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36424**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-29-11 (GP)
Time: 1005 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1211
Cumulative Sample Time (min): 605
Atmospheric Pressure (INS) 28.02
Temperature inside station unit (°F): 58.2 / 42 BOX
Battery voltage reading (volts): 12.78

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 2-1-11 (GP)
Time: 1114 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 9989
Cumulative Sample Time (min): 4994
Atmospheric Pressure (INS) 28.81
Temperature inside station unit (°F): 29.0 / 19 BOX
Battery voltage reading (volts): 12.50

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) GP

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )
Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20079

Station Location: **T-12QC(FireStation)**
Field Technician: JJ
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36444**
Sampling Period: 45

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: **TA-20078**

PUMP SETUP DAY

Date: 1-28-11
Time: 1202

Timer Beginning Date/Time: 1-29-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 2-3-11
Time: 1205

Timer Ending Date/Time: 2-3-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.28
Temperature inside station unit (°F): 47.9 /25 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature]

DATE: 2-3-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20079

Station Location: **T-12QC(FireStation)** Sample ID #:

Field Technician: [initials] Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36444**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-29-11 ([initials])

Time: 1006 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1213

Cumulative Sample Time (min): 606

Atmospheric Pressure (INS) 27.42

Temperature inside station unit (°F): 65.3 / 42 Box

Battery voltage reading (volts): 12.74

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 2-1-11 ([initials])

Time: 1117 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 9995

Cumulative Sample Time (min): 4997

Atmospheric Pressure (INS) 28.00

Temperature inside station unit (°F): 42.4 / 19 Box

Battery voltage reading (volts): 12.28

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20080

Station Location: **T-13 (Forest Service)**
Field Technician: **[illegible]**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36484**
Sampling Period: 45

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-28-11
Time: 1201

Timer Beginning Date/Time: 1-29-11/2400
Beginning Flow Rate (L/min): .2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 2-3-11
Time: 1214

Timer Ending Date/Time: 2-3-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmospheric Pressure (INS) 28.43
Temperature inside station unit (°F): 23.5/23 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] **DATE:** 2-3-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20080

Station Location: **T-13 (Forest Service)**
Sample ID #:
Field Technician: [signature]
Filter Lot #: **20526-02**
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36484**

DAILY CHECK (For each station visit)

		(Field Tech Initials)		
Date:	1-29-11	([initials])	PUMP FAULT (Yes / No):	NO
Time:	1014	( )	Flow Rate (L/min):	2
			Cumulative Sample Volume (L):	1227
			Cumulative Sample Time (min):	613
			Atmospheric Pressure (INS)	27.53
			Temperature inside station unit (°F):	52.9 / 42 BOX
			Battery voltage reading (volts):	12.82

DAILY CHECK (For each station visit)

		(Field Tech Initials)		
Date:	2-1-11	([initials])	PUMP FAULT (Yes / No):	NO
Time:	1130	( )	Flow Rate (L/min):	2
			Cumulative Sample Volume (L):	OFLO
			Cumulative Sample Time (min):	5010
			Atmospheric Pressure (INS)	28.38
			Temperature inside station unit (°F):	25.5 / 15 BOX
			Battery voltage reading (volts):	12.54

DAILY CHECK (For each station visit)

		(Field Tech Initials)		
Date:		( )	PUMP FAULT (Yes / No):	
Time:		( )	Flow Rate (L/min):	
			Cumulative Sample Volume (L):	
			Cumulative Sample Time (min):	
			Atmospheric Pressure (INS)	
			Temperature inside station unit (°F):	
			Battery voltage reading (volts):	

DAILY CHECK (For each station visit)

[initials]

		(Field Tech Initials)		
Date:		( )	PUMP FAULT (Yes / No):	
Time:		( )	Flow Rate (L/min):	
			Cumulative Sample Volume (L):	
			Cumulative Sample Time (min):	
			Atmospheric Pressure (INS)	
			Temperature inside station unit (°F):	
			Battery voltage reading (volts):	

DAILY CHECK (For each station visit)

		(Field Tech Initials)		
Date:		( )	PUMP FAULT (Yes / No):	
Time:		( )	Flow Rate (L/min):	
			Cumulative Sample Volume (L):	
			Cumulative Sample Time (min):	
			Atmospheric Pressure (INS)	
			Temperature inside station unit (°F):	
			Battery voltage reading (volts):	

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20081**

Station Location: **T-14 (City Lot R\R)** Sample ID #:

Field Technician: [illegible] Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000** Sample Type: **TEM**

Pump Number: **36446** Sample Parent ID #: —

Sampling Period: 45

PUMP SETUP DAY

Date: 1-28-11 Timer Beginning Date/Time: 1-29-11/2400

Time: 1200 Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 2-3-11 Timer Ending Date/Time: 2-3-11/2400

Time: 1144 Ending Flow Rate (L/min): 2

Total Sample Volume (L): OFLO

Total Sample Time (min): 7200

Atmospheric Pressure (INS) 28.35

Temperature inside station unit (°F): 28.6/25 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature] DATE: 2-3-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S[HEET]

ADDITIONAL DAILY CHECK RECORDS

TA-20081

Station Location: **T-14 (City Lot R\R)** Sample ID #:

Field Technician: [initials] Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36446**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-29-11 ([initials])

Time: 0950 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1180
Cumulative Sample Time (min): 589
Atmospheric Pressure (INS) 27.45
Temperature inside station unit (°F): 57.4/44 Box
Battery voltage reading (volts): 12.82

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 2-1-11 ([initials])

Time: 1054 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 9948
Cumulative Sample Time (min): 4974
Atmospheric Pressure (INS) 28.29
Temperature inside station unit (°F): 35.2 / 16 Box
Battery voltage reading (volts): 12.50

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S **TA-20082**

Station Location: **T-15 (Ranch Motel)** Sample ID #: _____

Field Technician: _____ Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000** Sample Type: **TEM**

Pump Number: **36427** Sample Parent ID #: —

Sampling Period: 4/5

PUMP SETUP DAY

Date: 1-28-11 Timer Beginning Date/Time: 1-29-11/2400

Time: 1159 Beginning Flow Rate (L/min): 2

Pump Programmed (Yes / No): Yes

Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 2-3-11 Timer Ending Date/Time: 2-3-11/2400

Time: 1137 Ending Flow Rate (L/min): 2

Total Sample Volume (L): OFLO

Total Sample Time (min): 7200

Atmospheric Pressure (INS) 28.57

Temperature inside station unit (°F): 27.7 /24 Box

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: _____ DATE: 2-3-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20082

Station Location: **T-15 (Ranch Motel)** Sample ID #:

Field Technician: [illegible]

Pump Type/Model: **SKC AirChek 2000** Filter Lot #: **20526-02**

Pump Number: **36427**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-29-11 ([illegible])

Time: 0946 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1171

Cumulative Sample Time (min): 585

Atmospheric Pressure (INS) 27.78

Temperature inside station unit (°F): 58.9 / 42 Box

Battery voltage reading (volts): 12.83

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 2-1-11 ([illegible])

Time: 1043 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 9936

Cumulative Sample Time (min): 4968

Atmospheric Pressure (INS) 28.62

Temperature inside station unit (°F): 32.4 / 17 Box

Battery voltage reading (volts): 12.57

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) [illegible]

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20083

Station Location: **T-16 (J. Erickson)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36422**
Sampling Period: 45

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-28-11
Time: 1158

Timer Beginning Date/Time: 1-29-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 2-3-11
Time: 1127

Timer Ending Date/Time: 2-3-11/24.00
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7209
Atmospheric Pressure (INS) 27.76
Temperature inside station unit (°F): 23.7 / 2280X

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature]

DATE: 2 - 3 - 11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20083

Station Location: **T-16 (J. Erickson)**

Sample ID #:

Field Technician: gg

Filter Lot #: **20526-02**

Pump Type/Model: **SKC AirChek 2000**

Pump Number: **36422**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-29-11 (gg)

Time: 0935 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 1151

Cumulative Sample Time (min): 575

Atmospheric Pressure (INS) 29.07

Temperature inside station unit (°F): 55.0 / 47 Box

Battery voltage reading (volts): 12.77

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 2-1-11 (gg)

Time: 1036 ( )

PUMP FAULT (Yes / No): NO

Flow Rate (L/min): 2

Cumulative Sample Volume (L): 9913

Cumulative Sample Time (min): 4956

Atmospheric Pressure (INS) 29.71

Temperature inside station unit (°F): 26.4 / 13 Box

Battery voltage reading (volts): 12.42

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials) gg

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):

Flow Rate (L/min):

Cumulative Sample Volume (L):

Cumulative Sample Time (min):

Atmospheric Pressure (INS)

Temperature inside station unit (°F):

Battery voltage reading (volts):

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

TA-20084

Station Location: **T-17 (County Dump)**
Field Technician: [illegible]
Pump Type/Model: **SKC AirChek 2000**
Pump Number: **36428**
Sampling Period: 45

Sample ID #:
Filter Lot #: **20526-02**
Sample Type: **TEM**
Sample Parent ID #: —

PUMP SETUP DAY

Date: 1-28-11
Time: 1157

Timer Beginning Date/Time: 1-29-11/2400
Beginning Flow Rate (L/min): 2
Pump Programmed (Yes / No): Yes
Bios Calibration Within 10 mL (Yes / No) Yes

PUMP RETRIEVAL DAY

Date: 2-3-11
Time: 1115

Timer Ending Date/Time: 2-3-11/2400
Ending Flow Rate (L/min): 2
Total Sample Volume (L): OFLO
Total Sample Time (min): 7200
Atmosperic Pressure (INS) 25.33
Temperature inside station unit (°F): 34.5/20 BOX

COMMENTS: (Please note all photographs taken, major storm events, vandalism, and reason for pump fault

SIGNATURE: [signature]

DATE: 2-3-11

TETRA TECH EM INC.

OU7 OUTDOOR AMBIENT AIR - FIELD SAMPLE DATA S

ADDITIONAL DAILY CHECK RECORDS

TA-20084

Station Location: **T-17 (County Dump)** Sample ID #:

Field Technician:

Pump Type/Model: **SKC AirChek 2000** Filter Lot #: **20526-02**

Pump Number: **36428**

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 1-29-11 ( )

Time: 0928 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 1136
Cumulative Sample Time (min): 568
Atmospheric Pressure (INS) 27.46
Temperature inside station unit (°F): 62.5 / 42 BOX
Battery voltage reading (volts): 12.78

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: 2-1-11 ( )

Time: 1026 ( )

PUMP FAULT (Yes / No): NO
Flow Rate (L/min): 2
Cumulative Sample Volume (L): 9892
Cumulative Sample Time (min): 4946
Atmospheric Pressure (INS) 28.20
Temperature inside station unit (°F): 37.4 / 14 BOX
Battery voltage reading (volts): 12.41

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric pressure (INS):
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS)
Temperature inside station unit (°F):
Battery voltage reading (volts):

DAILY CHECK (For each station visit)

(Field Tech Initials)

Date: ( )

Time: ( )

PUMP FAULT (Yes / No):
Flow Rate (L/min):
Cumulative Sample Volume (L):
Cumulative Sample Time (min):
Atmospheric Pressure (INS
Temperature inside station unit (°F):
Battery voltage reading (volts):

Record of Modification

to the

Troy Sampling and Quality Assurance Project Plan

Field Activities

TFO-00003

Instructions to Requester: **Fax to contacts at bottom of form for review and approval.**
File approved copy with Data Manager at the Troy Field Office (TFO).
Data Manager will maintain legible copies in a binder that can be accessed by TFO personnel.
If Modification is Temporary for a single Parcel, Data Manager will scan this and place in parcel's electronic file.

Project Work Plan/QAPP (check one)**:**

- ● Outdoor Ambient Air Study Work Plan
- O Other (Title and approval date):_____

Site-Specific Guidance/SOP:
Title NA Number/Revision): NA

Requester: **Catherine LeCours** Title: **Project Manager**
Company: **DEQ** Date: **October 11, 2010**

Description of Modification (attach additional sheets if necessary, state section and page numbers of each document that are affected by the proposed modification): ***Section 4.4.2 in the Final Remedial Investigation Work Plan Outdoor Ambient Air Study – Operable Unit Number 7 of the Libby Asbestos Superfund Site*** provides a general description of proposed ambient air sampling station locations. "As previously discussed, the predominant winds in Troy tend to flow in southeast and northwest directions, following the river corridor in which Troy is located. Two sampling stations (one each) will be placed in close proximity to the northwest and southeast boundaries of OU7. This will ensure that there are upwind and downwind sample collection stations for both directions the wind is blowing. Two stations (one each) will also be located on the northwest and southeast borders of downtown Troy in order to have upwind and downwind sample stations in the area with the highest population density. One sample station will be placed at the DEQ Troy Information Center in downtown Troy to measure LA concentrations in Troy. One station will be placed in the Kootenai Vista area in the northern portion of OU7 and the last station will be placed along or near Iron Creek Road in the southwestern portion of OU7." The ambient air monitoring stations will be relocated for the second year for more comprehensive coverage of the four "air zones" identified in OU7. This will provide additional data in support of human health risks related to ambient air exposure.

Field Sampling Data Sheet where Modification is documented (attach associated correspondence): **N/A**

Potential Implications of Modification: Re-locating the ambient air sampling stations within the four "air zones" will further support human health risk assessment for OU7. Moving the stations will not impact analytical protocol and is not anticipated to have any impact on analytical results.

Duration of Modification (Check one):

O Temporary

Date(s):_____ Station Number-_____

TA-_____

- Permanent (Proposed Text Modification Section) Effective Date: November 1, 2010

Proposed Text Modifications in Associated Document (attach additional sheets if necessary): ***Section 4.4.2 in the Final Remedial Investigation Work Plan Outdoor Ambient Air Study – Operable Unit Number 7 of the Libby Asbestos Superfund Site and Table 4-2***:

As previously discussed, the predominant winds in Troy flow in southeast and northwest directions, following the river corridor in which Troy is located. ~~Two~~ Three sampling stations ~~(one each)~~ will be placed in new locations in close proximity to the ~~northwest~~ northern (1) and ~~southeast~~ southern (2) boundaries of OU7. This will ensure that there are upwind and downwind sample collection stations for both directions the wind is blowing. Two stations (one each) will be re-located ~~on the northwest~~ near the northern and ~~southeast~~ southern borders of downtown Troy in order to have upwind and downwind sample stations in the area with the highest population density. One sample station will be located in the densely populated area of downtown Troy and a final station will be re-located north of Troy in a developed area along the Kootenai River. ~~One sample station will be placed at the DEQ Troy Information Center in downtown Troy to measure LA concentrations in Troy. One station will be placed in the Kootenai Vista area in the northern portion of OU7 and the last station will be placed along or near Iron Creek Road in the southwestern portion of OU7.~~ Table 4-2 has the rationale for the new ambient air monitoring locations and Figure 4-2 shows the proposed new ambient air monitoring locations.

TABLE 4-2

OUTDOOR AMBIENT AIR SAMPLING LOCATIONS

Station Number	Location*	Purpose
T1	Upwind/downwind site near the NW border of OU7	This site will be used to evaluate LA concentrations at the northernmost boundary of OU7 and confirm if any LA is entering or leaving OU7
T2	Community exposure site located within small community area NE of the Kootenai River	This site will be used to evaluate LA concentrations at the small community and the ~~middle~~ northern boundary of OU7
T3	City of Troy northern site	This site will be used to evaluate LA concentrations north of the Troy community
T4	City of Troy population exposure site	This site will be used to evaluate LA concentrations in the Troy community (specifically in the population center).
~~T4QC~~	~~City of Troy population exposure site~~	~~Co-located sample station of T4~~
T5	City of Troy southern site	This site will be used to evaluate LA concentrations south of the Troy community
T6	SW upwind/downwind site	This site will be used to evaluate LA concentrations at the southwestern boundary of the OU and confirm if any LA is entering or leaving OU7
T7	SE upwind/downwind site	This site will be used to evaluate LA concentrations at the southeastern boundary of the OU and confirm if any LA is entering or leaving OU7

Station Number	Location*	Purpose
TQC	Rotating co-located sampling station to each of the seven sampling locations	Co-located sampling station to evaluate analytical variability at each of the seven station locations

Notes:

LA	Libby Amphibole	SE	Southeast
NE	Northeast	SW	Southwest
NW	Northwest	OU	Operable Unit

* Predominant winds in the area blow from the southeast and northwest. Stations on the southeast and northwest boundaries of OU7 will act as upwind and downwind receptors depending on wind direction. A summary of historical meteorological conditions is presented in Section 4.4.1.

Data Quality Indicator (circle one) – Please reference definitions on reverse side for direction on selecting data quality indicators:

Not Applicable **Reject** **Low Bias** **Estimate** **High Bias** **No Bias**

Technical Review and Approval: _____ Date:_____
(DEQ Project Manager or designate)

EPA Review and Approval: _____ Date:_____
(USEPA RPM or designate)

DATA QUALITY INDICATOR DEFINITIONS

Reject – Samples associated with this modification form are not useable. The conditions outlined in the modification form adversely affect the associated sample to such a degree that the data are not reliable.

Low Bias – Samples associated with this modification form are useable, but results are likely to be biased low. The conditions outlined in the modification form suggest that associated sample data are reliable, but estimated low.

Estimate – Samples associated with this modification form are useable, but results should be considered approximations. The conditions outlined in the modification form suggest that associated sample data are reliable, but estimates.

High Bias – Samples associated with this modification form are useable, but results are likely to be biased high. The conditions outlined in the modification form suggest that associated sample data are reliable, but estimated high.

No Bias – Samples associated with this modification form are useable as reported. The conditions outlined in the modification form suggest that associated sample data are reliable as reported.

Record of Modification

to the

Troy Sampling and Quality Assurance Project Plan

Field Activities

TFO-00004

Instructions to Requester: **Fax to contacts at bottom of form for review and approval.**
File approved copy with Data Manager at the Troy Field Office (TFO).
Data Manager will maintain legible copies in a binder that can be accessed by TFO personnel.
If Modification is Temporary for a single Parcel, Data Manager will scan this and place in parcel's electronic file.

Project Work Plan/QAPP (check one)**:**

- ● Outdoor Ambient Air Study Work Plan
- O Other (Title and approval date):_____

Site-Specific Guidance/SOP:
Title NA Number/Revision): NA

Requester: **Catherine LeCours** Title: **Project Manager**
Company: **DEQ** Date: **October 11, 2010**

Description of Modification (attach additional sheets if necessary, state section and page numbers of each document that are affected by the proposed modification): **Section 5.2 in the *Final Remedial Investigation Work Plan Outdoor Ambient Air Study – Operable Unit Number 7 of the Libby Asbestos Superfund Site*** states "Field co-located samples will be collected from the same location throughout the project and will consist of a co-located sampling station (Station T4QC) to be built approximately seven feet from the proposed sampling station to be located at the DEQ Troy Information Center." For the second year of ambient air sampling this protocol will be changed so that the co-located sampling station will be named "TQC" and will move to a different sampling station during each sampling period.

Field Sampling Data Sheet where Modification is documented (attach associated correspondence): **N/A**

Potential Implications of Modification: Modifications to sampling protocol involve rotating the co-located sampling station among all of the seven ambient air sampling stations. Analytical protocol will not be impacted; however, moving the co-located sampling station will allow evaluation of analytical variability at all seven stations. A minimum of five co-located samples will be collected at each of the stations.

Duration of Modification (Check one):

- O Temporary

  Date(s):_____ Station Number-_____

  TA-_____

- ● Permanent (Proposed Text Modification Section) Effective Date: November 1, 2010

Proposed Text Modifications in Associated Document (attach additional sheets if necessary): **Section 4.4.2 in the *Final Remedial Investigation Work Plan Outdoor Ambient Air Study – Operable Unit Number 7 of the Libby Asbestos Superfund Site (Table 4-2) and Section 5.2 (Paragraph 5):***

TABLE 4-2

OUTDOOR AMBIENT AIR SAMPLING LOCATIONS

Station Number	Location*	Purpose
T1	Upwind/downwind site near the NW border of OU7	This site will be used to evaluate LA concentrations at the northernmost boundary of OU7 and confirm if any LA is entering or leaving OU7
T2	Community exposure site located within small community area NE of the Kootenai River	This site will be used to evaluate LA concentrations at the small community and the ~~middle~~ northern boundary of OU7
T3	City of Troy northern site	This site will be used to evaluate LA concentrations north of the Troy community
T4	City of Troy population exposure site	This site will be used to evaluate LA concentrations in the Troy community (specifically in the population center).
~~T4QC~~	~~City of Troy population exposure site~~	~~Co-located sample station of T4~~
T5	City of Troy southern site	This site will be used to evaluate LA concentrations south of the Troy community
T6	SW upwind/downwind site	This site will be used to evaluate LA concentrations at the southwestern boundary of the OU and confirm if any LA is entering or leaving OU7
T7	SE upwind/downwind site	This site will be used to evaluate LA concentrations at the southeastern boundary of the OU and confirm if any LA is entering or leaving OU7
TQC	Rotating co-located sampling station to each of the seven sampling locations	Co-located sampling station to evaluate analytical variability at each of the seven station locations

Notes:

LA	Libby Amphibole	SE	Southeast
NE	Northeast	SW	Southwest
NW	Northwest	OU	Operable Unit

* Predominant winds in the area blow from the southeast and northwest. Stations on the southeast and northwest bounds of OU7 will act as upwind and downwind receptors depending on wind direction. A summary of historical meteorological conditions is presented in Section 4.4.1.

Section 5.2 (Paragraph 5): ~~Field co-located samples will be collected from the same location throughout the project and will consist of a co-located sampling station (Station T4QC) to be built approximately seven feet from the proposed sampling station to be located at the DEQ Troy Information Center~~. Co-located field samples will be collected by Station TQC at a different station location each sample period throughout the project. Station TQC will be placed next to each of the seven stations throughout Year 2 monitoring. Station TQC will be moved after each sampling period (beginning with Sampling Station T1) and will be cycled through each of the remaining stations (T2, T3, T4…T7) so that a minimum of 5 co-located samples are collected from each of the seven sampling stations over the 36 sampling periods.

Data Quality Indicator (circle one) – Please reference definitions on reverse side for direction on selecting data quality indicators:

Not Applicable **Reject** **Low Bias** **Estimate** **High Bias** **No Bias**

Technical Review and Approval: _____ Date:_____
(DEQ Project Manager or designate)

EPA Review and Approval: _____ Date:_____
(USEPA RPM or designate)

DATA QUALITY INDICATOR DEFINITIONS

Reject – Samples associated with this modification form are not useable. The conditions outlined in the modification form adversely affect the associated sample to such a degree that the data are not reliable.

Low Bias – Samples associated with this modification form are useable, but results are likely to be biased low. The conditions outlined in the modification form suggest that associated sample data are reliable, but estimated low.

Estimate – Samples associated with this modification form are useable, but results should be considered approximations. The conditions outlined in the modification form suggest that associated sample data are reliable, but estimates.

High Bias – Samples associated with this modification form are useable, but results are likely to be biased high. The conditions outlined in the modification form suggest that associated sample data are reliable, but estimated high.

No Bias – Samples associated with this modification form are useable as reported. The conditions outlined in the modification form suggest that associated sample data are reliable as reported.

Samp_No	Period	Location	SampleDate	SampleType	Volume	SampleParentID	Name Lab	Benchsheet File Name	EDD File Name	Remarks	Validated (Y/N)	Validation Comments	QA Type	Validation Actions
TA-0001	1	T4QC	30-Oct-09	Field Duplicate/Replicate	21600	TA-0004	Reservoirs	TAA0001_RESI_182648-1_TEM_Scanned_Report	TA-0001_182648-489995_ISO_12-08-09_IA	Initial analysis by Reservoirs	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	For grid openings AG4-1, DF6-1, and EF1-6, the benchsheet entries for Mineral Class are tremolite/actinolite (TR/ACT) other asbestos (OA). However, TR/ACT are indicative of Libby amphibole (LA), so these structures appear to be incorrectly identified as OA instead of LA.	Not QA	Contacted lab about apparent inaccuracy.
TA-0001	1	T4QC	30-Oct-09	Field Duplicate/Replicate	21600	TA-0004	Reservoirs	TAA0001_RESI_182648-1_TEM_Scanned_Report	TA-0001_182648-489995_ISO_12-09-09_IARS_QC	Recount by Reservoirs	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	For grid openings AG4-1, DF6-1, and EF1-6, the benchsheet entries for Mineral Class are tremolite/actinolite (TR/ACT) other asbestos (OA). However, TR/ACT are indicative of Libby amphibole (LA), so these structures appear to be incorrectly identified as OA instead of LA.	RS	Contacted lab about apparent inaccuracy.
TA-0001	1	T4QC	30-Oct-09	Field Duplicate/Replicate	21600	TA-0004	Reservoirs	TAA0001_RESI_182648-1_TEM_Scanned_Report with replacement pages (file name TA-0001 Revisions)	TA-0001_182648-489995_ISO_12-08-09_IA_C1	Correction by Reservoirs	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	3 LA structures identified in this field duplicate sample; 4 LA structures identified in the associated original sample (TA-0004).	Not QA	ESAT conducted an interlab recount of both TA-0001 and TA-0004.
TA-0001	1	T4QC	30-Oct-09	Field Duplicate/Replicate	21600	TA-0004	ESAT	TAA0001_A101063_ESAT	TAA0001_TA-0001_A101063-1_ISO_06-16-10_IAIL_QC	IL Reanalysis by ESAT	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1 LA structure identified in this field duplicate sample; 2 LA structures identified by ESAT in the associated original sample (TA-0004)	Interlab	None
TA-0002	1	T6	30-Oct-09	Field Sample	21600		Reservoirs	TAA0001_RESI_182648-1_TEM_Scanned_Report	TA-0002_182648-489996_ISO_11-27-09_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1) Benchsheet entry for loose material or debris in cowl is NO but EDD entry is YES. 2) "QA Date" on Data Entry 2 worksheet is not populated.	Not QA	1 & 2) Requested that lab make corrections and resubmit.
TA-0003	1	T5	30-Oct-09	Field Sample	21600		Reservoirs	TAA0001_RESI_182648-1_TEM_Scanned_Report	TA-0003_182648-489997_ISO_11-30-09_IA	Initial analysis by RESI	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1) Benchsheet entry for loose material or debris in cowl is NO but EDD entry is YES. 2) ESAT conducted interlab recount of this sample (3 LA structures identified). Reservoirs found 5 LA structures.	Not QA	1) Requested that lab make corrections and resubmit.
TA-0003	1	T5	30-Oct-09	Field Sample	21600		ESAT	TAA0001_A101063_ESAT	TAA0001_TA-0001_A101063-2_ISO_06-07-10_IAIL_QC	IL Reanalysis by ESAT	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	ESAT identified 3 LA structures; RESI identified 5 LA structures	Interlab	None
TA-0004	1	T4	30-Oct-09	Field Sample	21600		Reservoirs	TAA0001_RESI_182648-1_TEM_Scanned_Report	TA-0004_182648-489998_ISO_11-30-09_IA	Initial analysis by RESI	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1) Benchsheet entry for loose material or debris in cowl is NO but EDD entry is YES. 2) Structure counts for several GOs in Grid A are missing from EDD. See page 1 of benchsheet for missing GOs. 3) 4 LA structures identified in this original sample; 3 LA structure identified in the associated field duplicate (TA-0001). 4) ESAT conducted interlab recount of this sample.	Not QA	1 & 2) Requested that lab make corrections and resubmit.
TA-0004	1	T4	30-Oct-09	Field Sample	21600		ESAT	TAA0001_A101063_ESAT	TAA0001_TA-0001_A101063-3_ISO_06-22-10_IAIL_QC	IL Reanalysis by ESAT	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	2 LA structures identified in this field duplicate sample; 1 LA structure identified by ESAT in the associated field duplicate sample (TA-0001)	Interlab	None
TA-0005	1	T7	30-Oct-09	Field Sample	21600		Reservoirs	TAA0001_RESI_182648-1_TEM_Scanned_Report	TA-0005_182648-489999_ISO_11-30-09_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA Date" on Data Entry 2 worksheet is not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0006	1	T2	30-Oct-09	Field Sample	7434		Not Analyzed	Not Analyzed	Not Analyzed	pump history did not start until 11/2/09; numerous pump faults	Not Analyzed	Not Analyzed	NA	NA
TA-0007	1	T1	30-Oct-09	Field Sample	21600		Reservoirs	TAA0001_RESI_182648-1_TEM_Scanned_Report	TA-0007_182648-490000_ISO_11-30-09_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA Date" on Data Entry 2 worksheet is not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0008	1	T3	30-Oct-09	Field Sample	21600		Reservoirs	TAA0001_RESI_182648-1_TEM_Scanned_Report	TA-0008_182648-490001_ISO_11-30-09_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA Date" on Data Entry 2 worksheet is not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0009	1	FB	30-Oct-09	Field Blank	0		Reservoirs	TAA0001_RESI_182648-1_TEM_Scanned_Report	TA-0009_182648-490002_ISO_12-01-09_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	QA Date on Data Entry 2 worksheet is not populated.	Not QA	Requested that lab make corrections and resubmit.

Samp_No	Period	Location	SampleDate	SampleType	Volume	SamplePar entID	Name Lab	Benchsheet File Name	EDD File Name	Remarks	Validated (Y/N)	Validation Comments	QA Type	Validation Actions
TA-0010	2	T1	09-Nov-09	Field Sample	21600		EMSL	TAA0002 271000015	TA-0010_271000015_0001_ISO_03-29-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0011	2	T2	09-Nov-09	Field Sample	21600		EMSL	TAA0002 271000015	TA-0011_271000015_0002_ISO_03-29-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0012	2	T3	09-Nov-09	Field Sample	21600		EMSL	TAA0002 271000015	TA-0012_271000015_0003_ISO_03-31-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0013	2	T4	09-Nov-09	Field Sample	21600		EMSL	TAA0002 271000015	TA-0013_271000015_0004_ISO_04-01-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0014	2	T4QC	09-Nov-09	Field Duplicate/Replicate	21600	TA-0013	EMSL	TAA0002 271000015	TA-0014_271000015_0005_ISO_04-01-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1) Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations. 2) Discrepancy between benchsheet and EDD. On benchsheet page 54 of 70, the analyst wrote "2" in the NAM column for the NAM fibers observed in Grid 1, GO F6. In the EDD (Data Entry 2	Not QA	1) None 2) Requested that lab make corrections and resubmit.
TA-0015	2	T5	09-Nov-09	Field Sample	21600		EMSL	TAA0002 271000015	TA-0015_271000015_0006_ISO_04-01-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0016	2	T6	09-Nov-09	Field Sample	21600		EMSL	TAA0002 271000015	TA-0016_271000015_0007_ISO_04-01-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0017	2	T7	09-Nov-09	Field Sample	21600		EMSL	TAA0002 271000015	TA-0017_271000015_0008_ISO_04-01-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0018	2	FB	09-Nov-09	Field Blank	0		EMSL	TAA0002 271000015	TA-0018_271000015_0009_ISO_04-01-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0019	3	T1	19-Nov-09	Field Sample	21600		EMSL	TAA0003 271000020	TA-0019_271000020-0001_ISO_04-22-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0020	3	T2	19-Nov-09	Field Sample	21600		EMSL	TAA0003 271000020	TA-0020_271000020-0002_ISO_04-22-10_D	changed out bulb battery 11/22/09	Y - Although, not 100%. TBC when results are loaded to Scribe	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0021	3	T3	19-Nov-09	Field Sample	21600		EMSL	TAA0003 271000020	TA-0021_271000020-0003_ISO_04-22-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0022	3	T4	19-Nov-09	Field Sample	21600		EMSL	TAA0003 271000020	TA-0022_271000020-0004_ISO_04-22-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0023	3	T4QC	19-Nov-09	Field Duplicate/Replicate	21600	TA-0022	EMSL	TAA0003 271000020	TA-0023_271000020-0005_ISO_04-22-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0024	3	T5	19-Nov-09	Field Sample	21600		EMSL	TAA0003 271000020	TA-0024_271000020-0006_ISO_04-22-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0025	3	T6	19-Nov-09	Field Sample	21600		EMSL	TAA0003 271000020	TA-0025_271000020-0007_ISO_04-22-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0026	3	T7	19-Nov-09	Field Sample	21600		EMSL	TAA0003 271000020	TA-0026_271000020-0008_ISO_04-22-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None

Samp_No	Period	Location	SampleDate	SampleType	Volume	SamplerParentID	Name Lab	Benchsheet File Name	EDD File Name	Remarks	Validated (Y/N)	Validation Comments	QA Type	Validation Actions
TA-0027	3	FB	19-Nov-09	Field Blank	0		EMSL	TAA0003 271000020	TA-0027_271000020-0009_ISO_04-22-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1) Benchsheet entry for Counting Rules is ANALYZE. It should be ISO. 2) Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	1) Requested that lab make corrections and resubmit. 2) None
TA-0028	4	T1	29-Nov-09	Field Sample	14400		EMSL	TAA0004_271000021	TA-0028_271000021-0001_ISO_04-23-10_D	sample for this period was 2 lpm	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0029	4	T2	29-Nov-09	Field Sample	14400		EMSL	TAA0004_271000021	TA-0029_271000021-0002_ISO_04-23-10_D	2 lpm collected this sample period only	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0030	4	T3	29-Nov-09	Field Sample	14400		EMSL	TAA0004_271000021	TA-0030_271000021-0003_ISO_04-23-10_D	2 lpm collected this sample period only	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0031	4	T4	29-Nov-09	Field Sample	14400		EMSL	TAA0004_271000021	TA-0031_271000021-0004_ISO_04-23-10_D	2 lpm collected this sample period only	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0032	4	T4QC	29-Nov-09	Field Duplicate/Replicate	14400	TA-0031	EMSL	TAA0004_271000021	TA-0032_271000021-0005_ISO_04-23-10_D	2 lpm collected this sample period only	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0033	4	T5	29-Nov-09	Field Sample	14400		EMSL	TAA0004_271000021	TA-0033_271000021-0006_ISO_04-23-10_D	2 lpm collected this sample period only	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0034	4	T6	29-Nov-09	Field Sample	14400		EMSL	TAA0004_271000021	TA-0034_271000021-0007_ISO_04-23-10_D	2 lpm collected this sample period only	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0035	4	T7	29-Nov-09	Field Sample	14400		EMSL	TAA0004_271000021	TA-0035_271000021-0008_ISO_04-23-10_D	2 lpm collected this sample period only	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. Apparently, these fields are auto-populated regardless of the type of sample preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0036	4	FB	29-Nov-09	Field Blank	0		EMSL	TAA0004_271000021	TA-0036_271000021-0009_ISO_04-23-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0037	5	T1	09-Dec-09	Field Sample	21600		Reservoirs	TAA0005_RESI_184121-1_TEM_Scanned _Report	TA-0037_184121-501205_ISO_12-29-09_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA By" and "QA Date" cells on Data Entry 2 worksheet are not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0038	5	T2	09-Dec-09	Field Sample	21600		Reservoirs	TAA0005_RESI_184121-1_TEM_Scanned _Report	TA-0038_184121-501206_ISO_12-30-09_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA By" and "QA Date" cells on Data Entry 2 worksheet are not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0040	5	T4	09-Dec-09	Field Sample	21600		Reservoirs	TAA0005_RESI_184121-1_TEM_Scanned _Report	TA-0040_184121-501207_ISO_12-29-09_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA By" and "QA Date" cells on Data Entry 2 worksheet are not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0041	5	T4QC	09-Dec-09	Field Duplicate/Replicate	21600	TA-0040	Reservoirs	TAA0005_RESI_184121-1_TEM_Scanned _Report	TA-0041_184121-501208_ISO_12-29-09_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA By" and "QA Date" cells on Data Entry 2 worksheet are not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0042	5	T5	09-Dec-09	Field Sample	21600		Reservoirs	TAA0005_RESI_184121-1_TEM_Scanned _Report	TA-0042_184121-501209_ISO_12-29-09_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA By" and "QA Date" cells on Data Entry 2 worksheet are not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0043	5	T6	09-Dec-09	Field Sample	21600		Reservoirs	TAA0005_RESI_184121-1_TEM_Scanned _Report	TA-0043_184121-501210_ISO_12-29-09_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA By" and "QA Date" cells on Data Entry 2 worksheet are not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0044	5	T7	09-Dec-09	Field Sample	21600		Reservoirs	TAA0005_RESI_184121-1_TEM_Scanned _Report	TA-0044_184121-501211_ISO_12-29-09_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA By" and "QA Date" cells on Data Entry 2 worksheet are not populated.	Not QA	Requested that lab make corrections and resubmit.

Samp_No	Period	Location	SampleDate	SampleType	Volume	SamplePartentID	Name Lab	Benchsheet File Name	EDD File Name	Remarks	Validated (Y/N)	Validation Comments	QA Type	Validation Actions
TA-0045	5	FB	17-Dec-09	Field Blank	0		Reservoirs	TAA0005_RESI_184121-1_TEM_Scanned _Report	TA-0045_184121-501212_ISO_12-30-09_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA By" and "QA Date" cells on Data Entry 2 worksheet are not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0047	5	T3	09-Dec-09	Field Sample	21600		Reservoirs	TAA0005_RESI_184121-1_TEM_Scanned _Report	TA-0047_184121-501213_ISO_12-30-09_D	pump was changed out.	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	"QA By" and "QA Date" cells on Data Entry 2 worksheet are not populated.	Not QA	Requested that lab make corrections and resubmit.
TA-0048	6	T1	19-Dec-09	Field Sample	21600		EMSL	TAA0006_271000022	TA-0048_271000022-0001_ISO_04-21-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0049	6	T2	19-Dec-09	Field Sample	21600		EMSL	TAA0006_271000022	TA-0049_271000022-0002_ISO_04-21-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0050	6	T3	19-Dec-09	Field Sample	21600		EMSL	TAA0006_271000022	TA-0050_271000022-0009_ISO_04-21-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0051	6	T4	19-Dec-09	Field Sample	21600		EMSL	TAA0006_271000022	TA-0051_271000022-0003_ISO_04-21-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0052	6	T4QC	19-Dec-09	Field Duplicate/Replicate	21600	TA-0051	EMSL	TAA0006_271000022	TA-0052_271000022-0004_ISO_04-21-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0053	6	T5	19-Dec-09	Field Sample	21600		EMSL	TAA0006_271000022	TA-0053_271000022-0005_ISO_04-21-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0054	6	T6	19-Dec-09	Field Sample	21600		EMSL	TAA0006_271000022	TA-0054_271000022-0006_ISO_04-21-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0055	6	T7	19-Dec-09	Field Sample	21600		EMSL	TAA0006_271000022	TA-0055_271000022-0007_ISO_04-21-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0056	6	FB	19-Dec-09	Field Blank	0		EMSL	TAA0006_27100022	TA-0056_271000022-0008_ISO_04-21-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1) Stopping rules on benchsheet and EDD do not match. 2) Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	1) Requested that lab make corrections and resubmit. 2) None
TA-0057	7	T1	29-Dec-09	Field Sample	21600		EMSL	TAA0007_271000023	TA-0057_271000023-0001_ISO_04-13-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0058	7	T2	29-Dec-09	Field Sample	21600		EMSL	TAA0007_271000023	TA-0058_271000023-0002_ISO_04-13-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0059	7	T3	29-Dec-09	Field Sample	21600		EMSL	TAA0007_271000023	TA-0059_271000023-0003_ISO_04-13-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0060	7	T4	29-Dec-09	Field Sample	21600		EMSL	TAA0007_271000023	TA-0060_271000023-0004_ISO_04-12-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0061	7	T4QC	29-Dec-09	Field Duplicate/Replicate	21600	TA-0060	EMSL	TAA0007_271000023	TA-0061_271000023-0005_ISO_04-12-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0062	7	T5	29-Dec-09	Field Sample	21600		EMSL	TAA0007_271000023	TA-0062_271000023-0006_ISO_04-12-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None

Samp_No	Period	Location	SampleDate	SampleType	Volume	SamplerParentID	Name Lab	Benchsheet File Name	EDD File Name	Remarks	Validated (Y/N)	Validation Comments	QA Type	Validation Actions
TA-0063	7	T6	29-Dec-09	Field Sample	21600		EMSL	TAA0007_271000023	TA-0063_271000023-0007_ISO_04-30-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0069	8	T4	08-Jan-10	Field Sample	21600		EMSL	TAA0008_271000024	TA-0069_271000024-0003_ISO_03-26-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0070	8	T4QC	08-Jan-10	Field Duplicate/Replicate	21600	TA-0069	EMSL	TAA0008_271000024	TA-0070_271000024-0004_ISO_03-26-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0074	8	FB	08-Jan-10	Field Blank	0		EMSL	TAA0008_271000024	TA-0074_271000024-0008_ISO_03-30-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0078	9	T2	18-Jan-10	Field Sample	21600		EMSL	TAA0009_192869	TA-0078-192869-584312_ISO_06-14-10_D_C1		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	None	Not QA	None
TA-0080	9	T4	18-Jan-10	Field Sample	21600		EMSL	TAA0009_192869	TA-0080-192869-584314_ISO_06-15-10_D_C1	pump history data doesn't match field data.	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	None	Not QA	None
TA-0081	9	T4QC	18-Jan-10	Field Duplicate/Replicate	21600	TA-0080	EMSL	TAA0009_192869	TA-0081-192869-584315_ISO_06-15-10_D_C1		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	None	Not QA	None
TA-0085	9	FB	18-Jan-10	Field Blank	0		EMSL	TAA0009_192869	TA-0085-192869-584319_ISO_06-15-10_D_C1		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Date Received By Lab on Data Entry 1 of EDD is not populated. It should be 6/7/10 according to bench sheet.	Not QA	Requested that lab make corrections and resubmit.
TA-0087	10	T2	28-Jan-10	Field Sample	21600		EMSL	TAA0010_271000016	TA-0087_271000016-0001_ISO_03-26-10_D_C1	heater battery discharged prior to sample completion	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0094	10	FB	28-Jan-10	Field Blank	0		EMSL	TAA0010_271000016	TA-0094_271000016-0006_ISO_03-29-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0098	11	T4	07-Feb-10	Field Sample	21600		EMSL	TAA0011_271000013	TA-0098_271000013-0004_ISO_03-09-10_IA	See FSDS sheet. Note about potentially higher dust in area.	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	No LA was detected in this sample, but 4 LA structures were found in the associated field duplicate sample. The lab next door to this sample station was being remodeled during the sample collection period, and a hole was cut through the wall. This may account for the variability between the two sample results.	Not QA	This result, instead of field duplicate TA-0099, should be reported.
TA-0099	11	T4QC	07-Feb-10	Field Duplicate/Replicate	21600	TA-0098	EMSL	TAA0011_271000013	TA-0099_271000013-0005_ISO_03-05-10_IA; TA-0099_271000013-0005_ISO_04-30-10_IARD;	See FSDS comments about dust related disturbance	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	0098), but 4 LA structures were found in this field duplicate sample. The lab next door to this sample station was being remodeled during the sample collection period, and a hole was cut through the wall. This may account for the variability between the two sample results.	Not QA	The original sample result (TA-0098), instead of this one (TA-0099) should be reported.
TA-0103	11	FB	07-Feb-10	Field Blank	0		EMSL	TAA0011_271000013	TA-0103_271000013-0009_ISO_03-04-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0107	12	T4	17-Feb-10	Field Sample	21600			TAA0012_192870	TA-0107_192870-584323_ISO_06-16-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	None	Not QA	None
TA-0108	12	T4QC	17-Feb-10	Field Duplicate/Replicate	21600	TA-0107		TAA0012_192870	TA-0108_192870-584324_ISO_06-16-10_D_C1		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	None	Not QA	None
TA-0111	12	FB	17-Feb-10	Field Blank	0			TAA0012_192870	TA-0111_192870-584327_ISO_06-16-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	None	Not QA	None

Samp_No	Period	Location	SampleDate	SampleType	Volume	SamplePartentID	Name Lab	Benchsheet File Name	EDD File Name	Remarks	Validated (Y/N)	Validation Comments	QA Type	Validation Actions
TA-0115	13	T4	06-Mar-10	Field Sample	14400		EMSL	TAA0013_271000019	TA-0115_271000019-0004_ISO_03-25-10_D	street sweeping occurred during this sample period. Total volume per minute changed from 3L to 2L.	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1) Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations. 2) 1 LA structure found in this original sample; 0 LA structures found in the associated field duplicate (TA-0116).	Not QA	1) None 2) This result should be reported (instead of field duplicate TA-0116).
TA-0116	13	T4QC	06-Mar-10	Field Duplicate/Replicate	14400	TA-0115	EMSL	TAA0013_271000019	TA-0116_271000019-0005_ISO_03-25-10_D	street sweeping occurred during this sample period. Total volume per minute changed from 3L to 2L.	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1) Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations. 2) 1 LA structure detected in original sample (TA-0115); 0 LA structures detected in this field duplicate sample.	Not QA	1) None 2) The original sample result (TA-0115), instead of this one, should be reported.
TA-0120	13	FB	06-Mar-10	Field Blank	0		EMSL	TAA0013_271000019	TA-0120_271000019-0009_ISO_03-26-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0124	14	T4	16-Mar-10	Field Sample	14400		Reservoirs	TAA0014_192871	TA-0124_192871-584453_ISO_06-11-10_D	2L	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	0 LA structures detected in this original sample; 2 LA structures detected in the associated field duplicate sample (TA-0125).	Not QA	This result (TA-0124), instead of field duplicate result (TA-0125), should be reported.
TA-0125	14	T4QC	16-Mar-10	Field Duplicate/Replicate	14400	TA-0124	Reservoirs	TAA0014_192871	TA-0125_192871-584454_ISO_06-11-10_D_C1	2L	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	0 LA structures detected in the original sample (TA-0124); 2 LA structures detected in this field duplicate sample.	Not QA	The original sample (TA-0124), as opposed to this field duplicate (TA-0125) should be reported.
TA-0131	15	T2	28-Mar-10	Field Sample	14400		EMSL	TAA0015_271000039	TA-0131_271000039-0002_ISO_04-13-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0138	15	FB	05-Apr-10	Field Blank	0		EMSL	TAA0015_271000039	TA-0138_271000039-0009_ISO_04-16-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0142	16	T4	07-Apr-10	Field Sample	14400		EMSL	TAA0016_271000065	TA-0142_271000065-0004_ISO_04-20-10_D	heavy rain 4/8/10	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0143	16	T4QC	07-Apr-10	Field Duplicate	14400	TA-0142	EMSL	TAA0016_271000065	TA-0143_271000065-0005_ISO_04-20-10_D	heavy rain 4/8/10 screen shot of pump did not work. Pump sent to SKC for updates 4/12/10	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0148	17	T1	17-Apr-10	Field Sample	14400		EMSL	TAA0017_271000113	TA-0148_271000113-0001_ISO_04-29-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0156	17	T4	17-Apr-10	Field Blank	0		EMSL	TAA0017_271000113	TA-0156_271000113-0009_ISO_04-30-10_D		Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0160	18	T4	27-Apr-10	Field Sample	14400		EMSL	TAA0018_271000161_R1	TA-0160_271000161-0004_ISO_05-10-10_D	4/28 high winds 4/29 heavy rain	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1) Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations. 2) 1 LA structure found in this original sample; 0 LA structures found in the associated field duplicate (TA-0161).	Not QA	1) None 2) This sample result should be reported (vs field duplicate TA-0161).

Samp_No	Period	Location	SampleDate	SampleType	Volume	SamplerParentID	Name Lab	Benchsheet File Name	EDD File Name	Remarks	Validated (Y/N)	Validation Comments	QA Type	Validation Actions
TA-0161	18	T4QC	27-Apr-10	Field Duplicate	14400	TA-0160		TAA0018_271000161_R1	TA-0161_271000161-0005_ISO_05-10-10_D	4/28 high winds 4/29 heavy rain	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	1) Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations. 2) 1 LA structure found in the associated original sample (TA-0160); 0 LA structures found in this field duplicate.	Not QA	1) None 2) The original sample result (TA-0160), instead of this field duplicate, should be reported.
TA-0169	19	T4	07-May-10	Field Sample	14400			TAA0019_271000270	TA-0169_271000270-0004_ISO_05-20-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0170	19	T4QC	07-May-10	Field Duplicate	14400	TA-0169		TAA0019_271000270	TA-0170_271000270-0005_ISO_05-26-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0174	19	T4	07-May-10	Field Blank	0			TAA0019_271000270	TA-0174_271000270-0009_ISO_05-27-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0178	20	T4	17-May-10	Field Sample	14400			TAA0020_271000361	TAA0020_TA-0178_271000361-0004_ISO_06-09-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0179	20	T4QC	17-May-10	Field Duplicate	14400	TA-0178		TAA0020_271000361	TAA0020_TA-0179_271000361-0005_ISO_06-09-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0183	20	T4	17-May-10	Field Blank	0			TAA0020_271000361	TAA0020_TA-0183_271000361-0009_ISO_06-09-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0187	21	T4	27-May-10	Field Sample	14400			TAA0021_271000463	TAA0021_TA-0187_271000463-0004_ISO_06-15-10_D	heavy rain all week	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0188	21	T4QC	27-May-10	Field Duplicate	14400	TA-0187		TAA0021_271000463	TAA0021_TA-0188_271000463-0005_ISO_06-15-10_D	heavy rains all week	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0192	21	T4	27-May-10	Field Blank	0			TAA0021_271000463	TAA0021_TA-0192_271000463-0009_ISO_06-15-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0196	22	T4	6/6/2010	Field Sample	14400		EMSL	TAA0022_EMSL27_271000493	TAA0022_TA-0196_271000493-0004_ISO_07-07-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0197	22	T4QC	6/6/2010	Field Duplicate	14400	TA-0196	EMSL	TAA0022_EMSL27_271000493	TAA0022_TA-0197_271000493-0005_ISO_07-07-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0201	22	T4	6/6/2010	Field Blank	0		EMSL	TAA0022_EMSL27_271000493	TAA0022_TA-0201_271000493-0009_ISO_07-07-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0205	23	T4	6/16/2010	Field Sample	14400		EMSL	TAA0023_EMSL27_271000556	TAA0023_TA-0205_271000556-0004_ISO_07-14-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None

Samp_No	Period	Location	SampleDate	SampleType	Volume	SamplerPartID	Name Lab	Benchsheet File Name	EDD File Name	Remarks	Validated (Y/N)	Validation Comments	QA Type	Validation Actions
TA-0206		23 T4QC	6/16/2010	Field Duplicate	14400		EMSL	TAA0023_EMSL27_271000556	TAA0023_TA-0206_271000556-0005_ISO_07-15-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0210		23 T4	6/16/2010	Field Blank	0		EMSL	TAA0023_EMSL27_271000556	TAA0023_TA-0205_271000556-0009_ISO_07-14-10_D	None	Y - Although, not 100%. TBC when results are loaded to Scribe and all lab QC data are received.	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0211		24 T1	6/24/2010	Field Sample	14400		EMSL	TAA0024_EMSL27_271000660	TAA0024_TA-0211_271000660-0001_ISO_07-12-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0214		24 T4	6/24/2010	Field Sample	14400		EMSL	TAA0024_EMSL27_271000660	TAA0024_TA-0214_271000660-0004_ISO_07-20-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0220		24 T6	6/24/2010	Field Sample	14400		EMSL	TAA0024_EMSL27_271000660	TAA0024_TA-0220_271000660-0009_ISO_07-20-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0225		25 T4QC	7/6/2010	Field Duplicate	14400	TA-0224	EMSL	TAA0025_EMSL27_271000708	TAA0025_TA-0225_271000708-0005_ISO_07-23-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0226		25 T5	7/6/2010	Field Sample	14400		EMSL	TAA0025_EMSL27_271000708	TAA0025_TA-0225_271000708-0006_ISO_07-26-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0227		25 T6	7/6/2010	Field Sample	14400		EMSL	TAA0025_EMSL27_271000708	TAA0025_TA-0225_271000708-0007_ISO_07-26-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0235		26 T5	7/16/2010	Field Sample	14400		EMSL	TAA0026_EMSL27_271000789	TAA0026_TA-0235_271000789-0006_ISO_07-30-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0239		27 T1	7/26/2010	Field Sample	14400		EMSL	TAA0027_EMSL27_271000853	TAA0027_TA-0239_271000853-0001_ISO_08-05-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0240		27 T2	7/26/2010	Field Sample	14400		EMSL	TAA0027_EMSL27_271000853	TAA0027_TA-0240_271000853-0002_ISO_08-05-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0257		29 T1	8/14/2010	Field Sample	14400		EMSL	TAA0029_EMSL27_271001040	TAA0029_TA-0257_271001040-0001_ISO_08-31-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0260		29 T4	8/14/2010	Field Sample	14400		EMSL	TAA0029_EMSL27_271001040	TAA0029_TA-0260_271001040-0004_ISO_09-02-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0262		29 T5	8/14/2010	Field Sample	14400		EMSL	TAA0029_EMSL27_271001040	TAA0029_TA-0262_271001040-0006_ISO_09-07-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0264		29 T7	8/14/2010	Field Sample	14400		EMSL	TAA0029_EMSL27_271001040	TAA0029_TA-0264_271001040-0008_ISO_09-07-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0272		30 T6	8/25/2010	Field Sample	14400		EMSL	TAA0030_EMSL27_271001092	TAA0030_TA-0272_271001092-0007_ISO_09-08-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0276		31 T2	9/4/2010	Field Sample	14400		EMSL	TAA0031_EMSL27_271001165_ISO	TAA0031_TA-0276_271001165-0002_ISO_09-17-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0277		31 T3	9/4/2010	Field Sample	14400		EMSL	TAA0031_EMSL27_271001165_ISO	TAA0031_TA-0277_271001165-0003_ISO_09-17-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0278		31 T4	9/4/2010	Field Sample	14400		EMSL	TAA0031_EMSL27_271001165_ISO	TAA0031_TA-0278_271001165-0004_ISO_09-17-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None

Samp_No	Period	Location	SampleDate	SampleType	Volume	SamplerParentID	Name Lab	Benchsheet File Name	EDD File Name	Remarks	Validated (Y/N)	Validation Comments	QA Type	Validation Actions
TA-0279	31	T4QC	9/4/2010	Field Duplicate	14400	TA-0278	EMSL	TAA0031_EMSL27_271001165_ISO	TAA0031_TA-0279_271001165-0005_ISO_09-17-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0280	31	T5	9/4/2010	Field Sample	14400		EMSL	TAA0031_EMSL27_271001165_ISO	TAA0031_TA-0280_271001165-0006_ISO_09-17-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0284	32	T1	9/14/2010	Field Sample	14400		EMSL	TAA0032_EMSL27_271001243_ISO	TAA0032_TA-0284_271001243-0001_ISO_09-27-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0294	33	T2	9/24/2010	Field Sample	14400		EMSL	TAA0033_EMSL22_221001903_ISO	TAA0033_TA-0294_221001903-0002_ISO_10-04-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0298	33	T5	9/24/2010	Field Sample	14400		EMSL	TAA0033_EMSL22_221001903_ISO	TAA0033_TA-0298_221001903-0006_ISO_10-06-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0304	34	T3	10/4/2010	Field Sample	14400		EMSL	TAA0034_EMSL22_221001999_ISO	TAA0034_TA-0304_221001999-0003_ISO_10-18-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0306	34	T4QC	10/4/2010	Field Duplicate	14400		EMSL	TAA0034_EMSL22_221001999_ISO	TAA0034_TA-0306_221001999-0005_ISO_10-19-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0307	34	T5	10/4/2010	Field Sample	14400		EMSL	TAA0034_EMSL22_221001999_ISO	TAA0034_TA-0307_221001999-0006_ISO_10-19-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0315	35	T4QC	10/14/2010	Field Duplicate	14400		EMSL	TAA0035_EMSL22_221002068_ISO	TAA0035_TA-0315_221002068-0005_ISO_10-29-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0316	35	T5	10/14/2010	Field Sample	14400		EMSL	TAA0035_EMSL22_221002068_ISO	TAA0035_TA-0316_221002068-0006_ISO_10-29-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0319	35	T4	10/14/2010	Field Blank	0		EMSL	TAA0035_EMSL22_221002068_ISO	TAA0035_TA-0319_221002068-0009_ISO_10-30-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0322	36	T2	10/24/2010	Field Sample	14400		EMSL	TAA0036_EMSL27_271001491_ISO	TAA0036_TA-0322_271001491-0003_ISO_11-08-10_D	None	Y	1. Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations. 2. Structure Type field has not been populated on page 4 of 4 of the benchsheet.	Not QA	2. Notified lab to correct benchsheet.
TA-0324	36	T4	10/24/2010	Field Sample	14400		EMSL	TAA0036_EMSL27_271001491_ISO	TAA0036_TA-0324_271001491-0005_ISO_11-08-10_D	None	Y	Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations.	Not QA	None
TA-0325	36	T4QC	10/24/2010	Field Duplicate	14400	TA-0324	EMSL	TAA0036_EMSL27_271001491_ISO	TAA0036_TA-0325_271001491-0006_ISO_11-08-10_D	None	Y	1. Secondary Filter Area on benchsheet and EDD and Secondary Filter Pore Size on benchsheet are populated even though this sample underwent direct preparation. The correct filter area was used in the calculations. 2. Structure Type field has not been populated on page 4 of 4 of the benchsheet.	Not QA	2. Notified lab to correct benchsheet.

TABLE C-1
YEAR 1 LA DETECTIONS
OU7 OUTDOOR AMBIENT AIR

Property ID	Location	Location Comment	Sample No.	Sample Date	Sample Type	COC	LA Detected	No Of Structures Counted	LA Concentration (s/cc)	Sampling Period
AD-200653	T4QC	Ambient Air Station - DEQ QC	TA-0001	30-Oct-09	Field Duplicate	TAA0001	Y	3	1.20E-04	1
AD-200920	T5	Department / Sewer Lift Station	TA-0003	30-Oct-09	Field Sample	TAA0001	Y	5	1.75E-04	1
AD-200653	T4	Ambient Air Station - DEQ	TA-0004	30-Oct-09	Field Sample	TAA0001	Y	4	1.56E-04	1
AD-201580	T2	Truck Barn #2 TRFD	TA-0078	18-Jan-10	Field Sample	TAA0009	Y	1	3.77E-05	9
AD-201580	T2	Truck Barn #2 TRFD	TA-0087	28-Jan-10	Field Sample	TAA0010	Y	1	3.81E-05	10
AD-200653	T4QC	Ambient Air Station - DEQ QC	TA-0099	07-Feb-10	Field Duplicate	TAA0011	Y	4	1.58E-04	11
AD-200809	T1	Ambient Air Station - Brown Rental	TA-0104	17-Feb-10	Field Sample	TAA0012	Y	2	7.37E-05	12
AD-201580	T2	Truck Barn #2 TRFD	TA-0105	17-Feb-10	Field Sample	TAA0012	Y	1	3.77E-05	12
AD-200335	T3	Ambient Air Station - City Park Shop	TA-0106	17-Feb-10	Field Sample	TAA0012	Y	1	3.68E-05	12
AD-201138	T7	Residence	TA-0110	17-Feb-10	Field Sample	TAA0012	Y	1	3.63E-05	12
AD-200653	T4	Ambient Air Station - DEQ	TA-0115	06-Mar-10	Field Sample	TAA0013	Y	1	3.74E-05	13
AD-200653	T4QC	Ambient Air Station - DEQ QC	TA-0125	16-Mar-10	Field Duplicate	TAA0014	Y	2	7.15E-05	14
AD-201535	T6	Road Water Tower	TA-0127	16-Mar-10	Field Sample	TAA0014	Y	1	3.57E-05	14
AD-201138	T7	Residence	TA-0128	16-Mar-10	Field Sample	TAA0014	Y	1	3.63E-05	14
AD-201580	T2	Truck Barn #2 TRFD	TA-0131	28-Mar-10	Field Sample	TAA0015	Y	1	3.96E-05	15
AD-200809	T1	Ambient Air Station - Brown Rental	TA-0148	17-Apr-10	Field Sample	TAA0017	Y	1	3.96E-05	17
AD-200653	T4	Ambient Air Station - DEQ	TA-0160	27-Apr-10	Field Sample	TAA0018	Y	1	3.96E-05	18
AD-200920	T5	Department / Sewer Lift Station	TA-0316	14-Oct-10	Field Sample	TAA0035	Y	1	3.97E-05	35